

REPORT OF THE 419th CELL EXCHANGE

DECEMBER 1, 2020

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| B-cell Line | 579 - 580 |
| Cells | 1673-1676 |
| Sera | 1301-1304 |

B-CELL LINE EXCHANGE #290

The results for B-cell Line Exchange #290 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We would like to express our appreciation to **Leiden University Medical Centre, Leiden, The Netherlands**, for providing the interesting cells examined in our Exchanges.

We would like to also acknowledge and thank the labs performing NGS for sharing their results and encourage other NGS labs to share their findings. Haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Ter-579. DRB1*01:01-DRB1*11:04-DRB3*02:02-DQA1*03:01-DQA1*05:05-DQB1*03:01-DQB1*03:05-DPA1*01:03-DPB1*04:01-DPB1*04:02/A*02:01-A*24:02-B*18:01-C*07:01-C*12:03 is the reported consensus type for this cell from a Caucasian donor. One likely association present is C*07:01-B*18:01-DRB1*11:04-DQB1*03:01, observed in Caucasians, with HF = 0.00677. The other association present may then be C*12:03-B*18:01-DRB1*01:01-DQB1*03:05. It is unusual to find DRB1*01:01 associated with DQB1*03:05. DRB1*01:01 is commonly associated with DQB1*05:01 (HF = 0.09022, in Caucasians).

This cell was previously typed in the Exchange as Ter 404 (2008) and Ter 300 (2002). In this present retyping, good agreement was achieved for all allele assignments by labs reporting at high resolution.

Ter-580. DRB1*04:07-DRB1*08:06-DRB4*01:03-DQA1*01:02-DQA1*03:03-DQB1*03:01-DQB1*06:02-DPA1*02:01-DPB1*11:01-DPB1*17:01/A*02:05-A*32:01-B*15:10-B*40:02-C*02:02-C*03:04 is the reported consensus type for this cell from a donor of unknown ethnicity. Class II associations present are DRB1*04:07-DQB1*03:02 and DRB1*08:06-DQB1*06:02, observed commonly in Hispanic populations, with HF = 0.05700 and 0.00139.

This cell was previously studied in the Exchange as Ter 410 (2008), Ter 296 (2002), and Ter 230 (1998). In this present retyping, good agreement was achieved for all allele assignments by labs reporting at high resolution.

Table 1: Summary of the 290th B-cell Line Exchange

Ter-579

| Ter-579 | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---------------------------------------|---------|---------|---|--|-------------------------------------|---------------------------------------|---------|---------|---------------------------------------|--|--------|---------------------------------------|--|----------------|---------------------------------------|-------|--------|
| DNA Typing - class II | 28 labs High; 23 labs low-DRB1 | | %(n) | 18 labs High; 16 labs Low-DRB3/4/5 | | %(n) | 20 labs High; 21 labs Low-DQA1 | | %(n) | 27 labs High; 21 labs Low-DQB1 | | %(n) | 14 labs High; 10 labs Low-DPA1 | | %(n) | 26 labs High; 13 labs Low-DPB1 | | %(n) |
| | DRB1*01:01:01 | | 28(8) | DRB3*02:02:01:02 | | 6 (1) | DQA1*03:01:01 | | 20(4) | DQB1*03:01:01 | | 19(5) | DPA1*01:03:01:02 | | 7 (1) | DPB1*04:01:01 | | 31(8) |
| | DRB1*01:01:01G | | 4 (1) | DRB3*02:02:01 | | 22(4) | DQA1*03:01 | | 80(16) | DQB1*03:01:01G | | 7 (2) | DPA1*01:03:01 | | 21(3) | DPB1*04:01:01G | | 11(3) |
| | DRB1*01:01P | | 4 (1) | DRB3*02:02 | | 72(13) | DQA1*03 | | 100(21) | DQB1*03:01P | | 4 (1) | DPA1*01:03:01G | | 7 (1) | DPB1*04:01P | | 4 (1) |
| | DRB1*01:01 | | 64(18) | DRB3*PRESENT | | 19(3) | | | | DQB1*03:01 | | 70(19) | DPA1*01:03 | | 64(9) | DPB1*04:01 | | 54(14) |
| | DRB1*01 | | 100(23) | DRB3*02 | | 81(13) | | | | DQB1*03 (DQ7) | | 5 (1) | DPA1*01 | | 100(10) | DPB1*04(DP401) | | 46(6) |
| | | | | | | | | | | DQB1*03 | | 95(20) | | | | DPB1*04 | | 54(7) |
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| | 28 labs High; 23 labs low-DRB1 | | %(n) | | | | 20 labs High; 21 labs Low-DQA1 | | %(n) | 27 labs High; 21 labs Low-DQB1 | | %(n) | | | | 26 labs High; 13 labs Low-DPB1 | | %(n) |
| | DRB1*11:04:01 | | 36(10) | | | | DQA1*05:05:01:02 | | 5 (1) | DQB1*03:05:01 | | 33(9) | | | | DPB1*04:02:01 | | 31(8) |
| | DRB1*11:04 | | 64(18) | | | | DQA1*05:05:01 | | 15(3) | DQB1*03:05 | | 67(18) | | | | DPB1*04:02:01G | | 11(3) |
| | DRB1*11 | | 100(23) | | | | DQA1*05:05 | | 80(16) | DQB1*03 (DQ8) | | 5 (1) | | | | DPB1*04:02P | | 4 (1) |
| | | | | | | | DQA1*05 | | 100(21) | DQB1*03 | | 95(20) | | | | DPB1*04:02 | | 54(14) |
| | | | | | | | | | | | | | | | DPB1*04(DP402) | | 46(6) | |
| | | | | | | | | | | | | | | | DPB1*04 | | 54(7) | |
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| DNA Typing - class I | 22 labs High; 20 labs low- A | | %(n) | 22 labs High; 20 labs low- B | | %(n) | 22 labs High; 20 labs low- C | | %(n) | | | | | | | | | |
| | A*02:01:01 | | 36(8) | B*18:01:01:02 | | 4 (1) | C*07:01:01:16 | | 4 (1) | | | | | | | | | |
| | A*02:01P | | 5 (1) | B*18:01:01 | | 32(7) | C*07:01:01 | | 32(7) | | | | | | | | | |
| | A*02:01 | | 59(13) | B*18:01P | | 4 (1) | C*07:01P | | 4 (1) | | | | | | | | | |
| | A*02 | | 100(20) | B*18:01 | | 59(13) | C*07:01 | | 59(13) | | | | | | | | | |
| | | | | B*18 | | 100(20) | C*07 | | 100(20) | | | | | | | | | |
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| 22 labs High; 20 labs low- A | | %(n) | | | | 22 labs High; 20 labs low- C | | %(n) | | | | | | | | | | |
| A*24:02:01:04 | | 4 (1) | | | | C*12:03:01:01 | | 4 (1) | | | | | | | | | | |
| A*24:02:01 | | 32(7) | | | | C*12:03:01 | | 32(7) | | | | | | | | | | |
| A*24:02P | | 4 (1) | | | | C*12:03P | | 4 (1) | | | | | | | | | | |
| A*24:02 | | 59(13) | | | | C*12:03 | | 59(13) | | | | | | | | | | |
| A*24 | | 100(20) | | | | C*12 | | 100(20) | | | | | | | | | | |
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Table 2: Summary of the 290th B-cell Line Exchange

Ter-580

| DNA Typing - class II | | <u>28 labs High; 23 labs low-DRB1</u> | | <u>18 labs High; 16 labs Low-DRB3/4/5</u> | | <u>20 labs High; 21 labs Low-DQA1</u> | | <u>27 Labs High; 21 labs Low-DQB1</u> | | <u>14 labs High; 10 labs Low-DPA1</u> | | <u>26 labs High; 13 labs Low-DPB1</u> | | |
|-----------------------|--|---------------------------------------|---------|---|---------|---------------------------------------|---------|---------------------------------------|---------|---------------------------------------|---------|---------------------------------------|---------|--|
| | | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) | |
| DNA Typing - class II | | DRB1*04:07:01:01 | 3 (1) | DRB4*01:03:01 | 22(4) | DQA1*01:02:01 | 20(4) | DQB1*03:01:01 | 15(4) | DPA1*02:01:01:01 | 7 (1) | DPB1*11:01:01:01 | 4 (1) | |
| | | DRB1*04:07:01 | 29(8) | DRB4*01:03 | 72(13) | DQA1*01:02 | 80(16) | DQB1*03:01:01G | 7 (2) | DPA1*02:01:01 | 21(3) | DPB1*11:01:01 | 27(7) | |
| | | DRB*04:07:01G | 3 (1) | <i>DRB4*01:01</i> | 6 (1) | DQA1*01 | 100(21) | DQB1*03:01P | 4 (1) | DPA1*02:01:01G | 7 (1) | DPB1*11:01 | 69(18) | |
| | | DRB1*04:07P | 3 (1) | DRB4*PRESENT | 19(3) | | | DQB1*03:01 | 74(20) | DPA1*02:01 | 64(9) | DPB1*11 | 100(13) | |
| | | DRB1*04:07 | 61(17) | DRB4*01 | 81(13) | | | DQB1*03 (DQ7) | 5 (1) | DPA1*02 | 100(10) | | | |
| | | DRB1*04 | 100(23) | | | | | DQB1*03 | 95(20) | | | | | |
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| DNA Typing - class I | | <u>28 labs High; 23 labs low-DRB1</u> | | <u>20 labs High; 21 labs Low-DQA1</u> | | <u>27 Labs High; 22 labs Low-DQB1</u> | | <u>26 labs High; 13 labs Low-DPB1</u> | | | | | | |
| | | DRB1*08:06 | 100(28) | DQA1*03:03:01:01 | 5 (1) | DQB1*06:02:01:04 | 4 (1) | DPB1*17:01:01:02 | 4 (1) | | | | | |
| | | DRB1*08 | 100(23) | DQA1*03:03:01 | 15(3) | DQB1*06:02:01 | 22(6) | DPB1*17:01:01 | 27(7) | | | | | |
| | | | | DQA1*03:03 | 75(15) | DQB1*06:02P | 4 (1) | DPB1*17:01P | 4 (1) | | | | | |
| | | | | <i>DQA1*03:01</i> | 5 (1) | DQB1*06:02 | 70(19) | DPB1*17:01 | 65(17) | | | | | |
| | | | | DQA1*03 | 100(21) | DQB1*06 | 100(21) | DPB1*17 | 100(13) | | | | | |
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| DNA Typing - class I | | <u>22 labs High; 20 labs low- A</u> | | <u>23 labs High; 20 labs low- B</u> | | <u>22 labs High; 20 labs low- C</u> | | | | | | | | |
| | | A*02:05:01:01 | 9 (2) | B*15:10:01:01 | 4 (1) | C*02:02:02:01 | 4 (1) | | | | | | | |
| | | A*02:05:01 | 32(7) | B*15:10:01 | 35(8) | C*02:02:02 | 32(7) | | | | | | | |
| | | A*02:05 | 50(11) | B*15:10 | 61(14) | C*02:02P | 4 (1) | | | | | | | |
| | | A*02:01 | 4 (1) | B*15 (B71) | 5 (1) | C*02:02 | 59(13) | | | | | | | |
| | | A*02:02 | 4 (1) | B*15 | 95(19) | C*02 | 100(20) | | | | | | | |
| | | A*02 | 100(20) | | | | | | | | | | | |
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| DNA Typing - class I | | <u>22 labs High; 20 labs low- A</u> | | <u>22 labs High; 20 labs low- B</u> | | <u>22 labs High; 20 labs low- C</u> | | | | | | | | |
| | | A*32:01:01:01 | 4 (1) | B*40:02:01:08 | 4 (1) | C*03:04:02 | 41(9) | | | | | | | |
| | | A*32:01:01 | 32(7) | B*40:02:01 | 32(7) | C*03:04 | 59(13) | | | | | | | |
| | | A*32:01P | 4 (1) | B*40:02P | 4 (1) | C*03 (Cw10) | 5 (1) | | | | | | | |
| | | A*32:01 | 59(13) | B*40:02 | 59(13) | C*03 | 95(19) | | | | | | | |
| | | A*32 | 100(20) | B*40 (B61) | 5 (1) | | | | | | | | | |
| | | | | B*40 | 95(19) | | | | | | | | | |
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Table 3a: Individual laboratory results for B-cell #579 - Class II

| Low resolution | | | | | | | | | | | | | | |
|----------------|------|-----|-----------|----|------|-----|----------|----------|------|-----|------------|------------|-------------|---------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 278 | *01 | *11 | 3*02 | NT | *03 | *05 | *03 | *03 | *01 | *01 | *04 | *04 | SSP SSO | |
| 725 | *01 | *11 | 3*PRESENT | | *03 | *05 | *03 | *03 | | | | | SSP SSO | |
| 731 | *01 | *11 | 3*02 | | *03 | *05 | *03 | *03 | *01 | *01 | *04 | *04 | SSO SBT NGS | |
| 747 | *01 | *11 | 3*PRESENT | | *03 | *05 | *03 | *03 | *01 | *01 | *04 | *04 | RT-PCR | |
| 771 | *01 | *11 | | | *03 | *05 | *03 | *03 | | | *04 | *04 | SSP SSO NGS | |
| 774 | *01 | *11 | 3*02 | | *03 | *05 | *03 | *03 | | | *04(DP401) | *04(DP402) | SSP SSO | |
| 792 | *01 | *11 | 3*02 | | *03 | *05 | *03 | *03 | *01 | *01 | *04(DP401) | *04(DP402) | SSO NGS | |
| 793 | *01 | *11 | 3*02 | | *03 | *05 | *03 | *03 | | | *04(DP401) | *04(DP402) | SSP | B*35 |
| 794 | *01 | *11 | 3*02 | | *03 | *05 | *03 | | *01 | | *04 | | SSP SSO NGS | |
| 2400 | *01 | *11 | 3*02 | NP | *03 | *05 | *03 | *03 | | | *04 | *04 | RT-PCR | |
| 2847 | *01 | *11 | | | | | | | | | *04 | *04 | SSO NGS | |
| 3519 | *01 | *11 | | | *03 | *05 | *03 | *03 | *01 | *01 | *04(DP401) | *04(DP402) | SSO | |
| 3753 | | | 3*02 | NP | *03 | *05 | | | *01 | *01 | | | RT-PCR | |
| 3966 | | | | | | | | | | | | | SSO SBT | |
| 4079 | *01 | *11 | 3*02 | | *03 | *05 | *03 | *03 | *01 | | *04(DP401) | *04(DP402) | SSP RT-PCR | |
| 4079 | *01 | *11 | 3*02 | | *03 | *05 | *03 | *03 | *01 | | *04(DP401) | *04(DP402) | SSO | |
| 5130 | *01 | *11 | 3*02 | | *03 | *05 | *03 | *03 | | | *04 | *04 | SSO NGS | |
| 5214 | *01 | *11 | 3*02 | | *03 | *05 | *03(DQ7) | *03(DQ8) | *01 | | *04(DP401) | *04(DP402) | RT-PCR | |
| 5219 | *01 | *11 | | | *03 | *05 | *03 | *03 | | | | | SSO NGS | |
| 5451 | *01 | *11 | 3*02 | | *03 | *05 | *03 | *03 | | | | | SSO SBT | |
| 5462 | *01 | *11 | 3*02 | NP | *03 | *05 | *03 | *03 | *01 | | NT | NT | SSO | |
| 5488 | | | | | | | | | | | | | SSO NGS | |
| 5642 | *01 | *11 | 3*PRESENT | | | | *03 | *03 | | | | | SSP | |
| 6649 | *01 | *11 | | | | | | | | | | | SSO | |
| 8029 | *01 | *11 | | | *03 | *05 | *03 | *03 | | | | | SSO | |
| 8043 | *01 | *11 | | | *03 | *05 | *03 | *03 | | | | | SSP SSO | |
| 8068 | *01 | *11 | | | *03 | *05 | *03 | | | | | | SSO | |

Table 3b: Individual laboratory results for B-cell #579 - Class II

| High resolution | | | | | | | | | | | | | | |
|-----------------|-----------|-----------|------------|----|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-------------------|--|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 230 | *01:01 | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01 | *03:05 | *01:03 | *01:03 | *04:01 | *04:02 | NGS | |
| 278 | *01:01 | *11:04 | 3*02:02 | | NT | *03:01 | *05:05 | *03:01 | *03:05 | *01:03 | *01:03 | *04:01 | *04:02 | SSP SSO |
| 731 | *01:01 | *11:04:01 | | | | | | *03:01:01 | *03:05:01 | | | *04:01:01 | *04:02:01 | SSO SBT NGS RT-PCR |
| 747 | *01:01:01 | *11:04:01 | 3*02:02:01 | | *03:01:01 | *05:05:01 | *03:01 | *03:05:01 | *01:03:01 | *01:03:01 | *04:01:01 | *04:02:01 | SSP SSO NGS | DQB1*03:297 DPB1*105:01 DPB1*665:01 DPB1*126:01 |
| 762 | *01:01 | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01 | *03:05 | *01:03 | | *04:01 | *04:02 | NGS | DPB1*126:01 DPB1*105:01 |
| 771 | *01:01 | *11:04 | | | | | *03:01 | *03:05 | | | *04:01 | *04:02 | SSO NGS | |
| 774 | *01:01 | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01 | *03:05 | | | *04:01 | *04:02 | SSP SSO | DRB1*01:41 DRB1*01:45 DRB1*01:50 DRB1*01:52N DRB1*11:160 DRB1*11:163 DQB1*03:92 DQB1*03:93 DRB1*01:53 DRB1*01:62N DRB1*01:64 DRB1*01:67 DQB1*03:50 DQB1*03:73 |
| 792 | *01:01 | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01 | *03:05 | *01:03 | *01:03 | *04:01:01G | *04:02:01G | SSO NGS | DRB1*01:100 |
| 793 | | | | | *03:01 | *05:05 | | | | | *04:01 | *04:02 | SSP | |
| 794 | *01:01:01 | *11:04:01 | 3*02:02:01 | | *03:01 | *05:05 | *03:01 | *03:05:01 | NT | NT | *04:01:01 | *04:02:01 | SSP SSO NGS | |
| 2344 | *01:01:01 | *11:04:01 | NT | NT | NT | NT | *03:01:01 | *03:05:01 | NT | NT | *04:01:01 | *04:02:01 | NGS | DRB1*01:100 DPB1*105:01 DPB1*665:01 DPB1*126:01 |
| 2400 | *01:01 | *11:04 | 3*02:02 | | NP | *03:01 | *05:05 | *03:01 | *03:05 | | *04:01:01G | *04:02:01G | SSO NGS | DQB1*03:297 |
| 3135 | *01:01P | *11:04:01 | 3*02:02 | | *03:01 | *05:05 | *03:01P | *03:05:01 | *01:03 | *01:03 | *04:01P | *04:02P | | DQA1*05:09 |
| 3511 | *01:01 | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01 | *03:05 | *01:03 | *01:03 | *04:01 | *04:02 | SSP SSO | |
| 3519 | *01:01 | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01 | *03:05 | *01:03 | *01:03 | *04:01 | *04:02 | SSP NGS RT-PCR | DPB1*126:01 DPB1*665:01 DRB1*01:100 |

Table 3b: Individual laboratory results for B-cell #579 - Class II

| High resolution | | | | | | | | | | | | | | |
|-----------------|------------|-----------|---------------|--|-----------|--------------|------------|-----------|--------------|--------|------------|------------|-------------|---|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| | | | | | | | | | | | | | | DRB1*01:100 DQB1*03:256 DQB1*03:276N DQB1*03:292 DQB1*03:293 DQB1*03:294 DQB1*03:297 DQB1*03:326 DQB1*03:342 DQB1*03:350 DQB1*03:389 DPB1*23:01 DPB1*51:01 DPB1*105:01 DPB1*126:01 DPB1*138:01 DPB1*190:01 DPB1*642:01 DPB1*665:01 DPB1*736:01 DPB1*939:01 DQB1*03:419 |
| 3753 | *01:01 | *11:04 | | | | | *03:01 | *03:05 | | | *04:01 | *04:02 | SSO SBT | |
| 3966 | *01:01 | *11:04 | 3*02:02 | | | | *03:01 | *03:05 | | | | | SSP RT-PCR | |
| 4251 | *01:01:01G | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01:01G | *03:05 | *01:03 | *01:03 | *04:01:01G | *04:02:01G | NGS | |
| 4337 | *01:01 | *11:04 | | | | | *03:01 | *03:05 | | | *04:01 | *04:02 | SSP SBT NGS | |
| 5130 | *01:01 | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01 | *03:05 | | | *04:01 | *04:02 | SSO NGS | DPB1*126:01 A*02:01L DPB1*665:01 |
| 5133 | *01:01:01 | *11:04:01 | 3*02:02:01:02 | | *03:01:01 | *05:05:01:02 | *03:01:01 | *03:05:01 | *01:03:01:02 | | *04:01:01 | *04:02:01 | NGS | DPB1*126:01 DPB1*939:01N DPB1*105:01 DPB1*665:01 |
| 5214 | | | | | | | | | | | *04:01G | *04:02G | RT-PCR | |
| 5219 | *01:01:01 | *11:04:01 | | | | | *03:01:01 | *03:05:01 | | | *04:01:01 | *04:02:01 | SSO NGS | |
| 5451 | *01:01:01 | *11:04:01 | | | | | | | | | | | SSO SBT | |

Table 3b: Individual laboratory results for B-cell #579 - Class II

| High resolution | | | | | | | | | | | | | | | |
|-----------------|-----------|-----------|------------|----|-----------|-----------|------------|-----------|------------|------------|--------|-----------|-----------|---------------|---|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles | |
| 5462 | NT | NT | NT | NP | NT | NT | NT | NT | NT | | | *04:01 | *04:02 | SSO | DPB1*213:01 DPB1*334:01 DPB1*126:01 DPB1*523:01 DPB1*742:01 DPB1*743:01N DPB1*750:01 DPB1*754:01N DPB1*755:01 DPB1*756:01N DPB1*765:01 DPB1*767:01 DPB1*769:01 DPB1*773:01 DPB1*784:01 DPB1*795:01 DPB1*803:01 DPB1*804:01 DPB1*811:01+ |
| 5488 | *01:01:01 | *11:04:01 | 3*02:02:01 | | *03:01:01 | *05:05:01 | *03:01:01G | *03:05:01 | *01:03:01 | | | *04:01:01 | *04:02:01 | SSO NGS | DRB1*01:100 DPB1*126:01 DPB1*665:01 |
| 5642 | *01:01 | *11:04 | | | | | *03:01 | *03:05 | | | | | | SSP | |
| 8021 | *01:01 | *11:04 | 3*02:02 | | *03:01 | *05:05 | *03:01 | *03:05 | *01:03 | | | *04:01 | *04:02 | SSO NGS | |
| 8043 | *01:01 | *11:04 | | | *03:01 | *05:05 | *03:01 | *03:05 | | | | | | SSP SSO | |
| 8086 | *01:01 | *11:04 | | | *03:01 | *05:05 | *03:01 | *03:05 | *01:03:01G | *01:03:01G | *04:01 | *04:02 | | SBT | |
| 8122 | *01:01:01 | *11:04:01 | 3*02:02:01 | NP | *03:01:01 | *05:05:01 | *03:01:01 | *03:05:01 | *01:03:01 | | | *04:01:01 | *04:02:01 | NGS | DPB1*939:01 DPB1*105:01 DPB1*665:01 DPB1*126:01 |

Table 4: Individual laboratory results for B-cell #579 - Class I

| Table 4: Individual laboratory results for B-cell #579 - Class I | | | | | | | | | | | | | | |
|--|----------------|-----|-------|-----|-------|-----|-----------------|--------------|--------------|-----------|--------------|--------------|-------------|---|
| Center | Low resolution | | | | | | High resolution | | | | | | METHOD | Other Alleles |
| | HLA-A | | HLA-B | | HLA-C | | HLA-A | | HLA-B | | HLA-C | | | |
| 230 | | | | | | | *02:01 | *24:02 | *18:01 | *18:01 | *07:01 | *12:03 | NGS | |
| 278 | *02 | *24 | *18 | *18 | *07 | *12 | *02:01 | *24:02 | *18:01 | *18:01 | *07:01 | *12:03 | SSP SSO | |
| 725 | *02 | *24 | *18 | | *07 | *12 | | | | | | | SSP SSO | |
| 731 | *02 | *24 | *18 | *18 | *07 | *12 | *02:01:01 | *24:02:01 | *18:01:01 | *18:01:01 | *07:01:01 | *12:03:01 | SSO SBT NGS | |
| 747 | *02 | *24 | *18 | *18 | *07 | *12 | *02:01:01 | *24:02:01 | *18:01:01 | *18:01:01 | *07:01:01 | *12:03:01 | RT-PCR | |
| 771 | *02 | *24 | *18 | | *07 | *12 | *02:01 | *24:02 | *18:01 | | *07:01 | *12:03 | SSP SSO NGS | |
| 774 | *02 | *24 | *18 | | *07 | *12 | | | | | | | SSO NGS | |
| 792 | *02 | *24 | *18 | *18 | *07 | *12 | *02:01 | *24:02 | *18:01 | *18:01 | *07:01 | *12:03 | SSP SSO | |
| 793 | *02 | *24 | *18 | | *07 | *12 | | | | | | | SSO NGS | A*02:01:01:02L |
| | | | | | | | | | | | | | SSP | |
| 794 | *02 | *24 | *18 | | *07 | *12 | *02:01:01 | *24:02:01 | *18:01:01 | | *07:01:01 | *12:03:01 | SSP SSO NGS | |
| 2344 | | | | | | | *02:01:01 | *24:02:01 | *18:01:01 | *18:01:01 | *07:01:01 | *12:03:01 | RT-PCR | |
| 2400 | *02 | *24 | *18 | | *07 | *12 | *02:01 | *24:02 | *18:01 | | *07:01 | *12:03 | NGS | |
| 2847 | *02 | *24 | *18 | | *07 | *12 | | | | | | | SSO NGS | |
| 3135 | | | | | | | *02:01P | *24:02P | *18:01P | *18:01P | *07:01P | *12:03P | SSO | |
| 3511 | | | | | | | *02:01 | *24:02 | *18:01 | | *07:01 | *12:03 | SSP SSO | |
| 3519 | *02 | *24 | *18 | | *07 | *12 | *02:01 | *24:02 | *18:01 | | *07:01 | *12:03 | SSP NGS | |
| | | | | | | | | | | | | | RT-PCR | |
| 3753 | | | | | | | *02:01 | *24:02 | *18:01 | *18:01 | *07:01 | *12:03 | | A*24:466 A*24:469 B*18:145 B*18:177 B*18:181 B*18:186 A*24:353 A*24:419 A*24:437 A*24:443 A*24:448N A*24:454 |
| 3966 | *02 | *24 | *18 | *18 | *07 | *12 | | | | | | | SSO SBT | |
| 4079 | *02 | *24 | *18 | | *07 | *12 | | | | | | | SSP RT-PCR | |
| 4251 | | | | | | | *02:01 | *24:02 | *18:01 | *18:01 | *07:01 | *12:03 | SSO | |
| 4337 | | | | | | | *02:01 | *24:02 | *18:01 | *18:01 | *07:01 | *12:03 | NGS | |
| 5130 | *02 | *24 | *18 | *18 | *07 | *12 | *02:01 | *24:02 | *18:01 | *18:01 | *07:01 | *12:03 | SSP SBT NGS | |
| 5133 | | | | | | | *02:01:01 | *24:02:01:04 | *18:01:01:02 | | *07:01:01:16 | *12:03:01:01 | SSO NGS | A*02:01L |
| 5214 | *02 | *24 | *18 | | *07 | *12 | | | | | | | NGS | |
| 5219 | *02 | *24 | *18 | *18 | *07 | *12 | *02:01:01 | *24:02:01 | *18:01:01 | *18:01:01 | *07:01:01 | *12:03:01 | RT-PCR | |
| 5451 | | | | | | | | | | | | | SSO NGS | |
| 5462 | *02 | *24 | *18 | | *07 | *12 | NT | NT | NT | | NT | NT | SSO SBT | |
| 5488 | | | | | | | *02:01:01 | *24:02:01 | *18:01:01 | | *07:01:01 | *12:03:01 | SSO | |
| 8021 | | | | | | | *02:01 | *24:02 | *18:01 | | *07:01 | *12:03 | SSO NGS | |
| 8029 | *02 | *24 | *18 | *18 | *07 | *12 | | | | | | | SSO | |
| 8068 | *02 | *24 | *18 | | *07 | *12 | | | | | | | SSO | |
| 8086 | | | | | | | *02:01 | *24:02 | *18:01 | *18:01 | *07:01 | *12:03 | SSO | |
| 8122 | | | | | | | *02:01:01 | *24:02:01 | *18:01:01 | | *07:01:01 | *12:03:01 | SBT | |
| | | | | | | | | | | | | | NGS | |

Table 5a: Individual laboratory results for B-cell #580 - Class II

| Low resolution | | | | | | | | | | | | | | |
|----------------|------|-----|-----------|----|------|-----|----------|-----|------|-----|------|-----|-----------------------|---------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 278 | *04 | *08 | 4*01 | NT | *01 | *03 | *03 | *06 | *02 | *02 | *11 | *17 | SSP SSO | |
| 725 | *04 | *08 | 4*PRESENT | | *01 | *03 | *03 | *06 | | | | | SSP SSO | |
| 731 | *04 | *08 | 4*01 | | *01 | *03 | *03 | *06 | *02 | *02 | *11 | *17 | SSO SBT NGS RT-PCR | |
| 747 | *04 | *08 | 4*PRESENT | | *01 | *03 | *03 | *06 | *02 | *02 | *11 | *17 | SSP SSO NGS | |
| 771 | *04 | *08 | | | *01 | *03 | *03 | *06 | | | *11 | *17 | SSO NGS | |
| 774 | *04 | *08 | 4*01 | | *01 | *03 | *03 | *06 | | | *11 | *17 | SSP SSO | |
| 792 | *04 | *08 | 4*01 | | *01 | *03 | *03 | *06 | *02 | *02 | *11 | *17 | SSO NGS | |
| 793 | *04 | *08 | 4*01 | | *01 | *03 | *03 | *06 | | | *11 | *17 | SSP | |
| 794 | *04 | *08 | 4*01 | | *01 | *03 | *03 | *06 | *02 | | *11 | *17 | SSP SSO NGS RT-PCR | |
| 2400 | *04 | *08 | 4*01 | NP | *01 | *03 | *03 | *06 | | | *11 | *17 | SSO NGS | |
| 2847 | *04 | *08 | | | | | | | | | | | SSO | |
| 3519 | *04 | *08 | | | *01 | *03 | *03 | *06 | *02 | *02 | *11 | *17 | SSP NGS RT-PCR | |
| 3753 | | | 4*01 | NP | *01 | *03 | | | *02 | *02 | | | SSO SBT | |
| 3966 | | | | | | | | | | | | | SSP RT-PCR | |
| 4079 | *04 | *08 | 4*01 | | *01 | *03 | *03 | *06 | *02 | | *11 | *17 | SSO | |
| 5130 | *04 | *08 | 4*01 | | *01 | *03 | *03 | *06 | | | *11 | *17 | SSO NGS | |
| 5214 | *04 | *08 | 4*01 | | *01 | *03 | *03(DQ7) | *06 | *02 | | *11 | *17 | RT-PCR | |
| 5219 | *04 | *08 | | | *01 | *03 | *03 | *06 | | | | | SSO NGS | |
| 5451 | *04 | *08 | 4*01 | | *01 | *03 | *03 | *06 | | | | | SSO SBT | |
| 5462 | *04 | *08 | 4*01 | NP | *01 | *03 | *03 | *06 | *02 | | NT | NT | SSO | |
| 5488 | | | | | | | | | | | | | SSO NGS | |
| 5642 | *04 | *08 | 4*PRESENT | | | | *03 | *06 | | | | | SSP | |
| 6649 | *04 | *08 | | | | | | | | | | | SSO | |
| 8029 | *04 | *08 | | | *01 | *03 | *03 | *06 | | | | | SSO | |
| 8043 | *04 | *08 | | | *01 | *03 | *03 | *06 | | | | | SSP SSO | |
| 8068 | *04 | *08 | | | *01 | *03 | *03 | *06 | | | | | SSO | |

Table 5b: Individual laboratory results for B-cell #580 - Class II

| High resolution | | | | | | | | | | | | | | |
|-----------------|-----------|--------|------------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------|---|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 230 | *04:07 | *08:06 | 4*01:03 | | *01:02 | *03:03 | *03:01 | *06:02 | *02:01 | *02:01 | *11:01 | *17:01 | NGS | |
| 278 | *04:07 | *08:06 | 4*01:03 | NT | *01:02 | *03:03 | *03:01 | *06:02 | *02:01 | *02:01 | *11:01 | *17:01 | SSP SSO | |
| 731 | *04:07:01 | *08:06 | | | | | *03:01 | *06:02 | | | *11:01 | *17:01 | SSO SBT NGS RT-PCR | |
| 747 | *04:07:01 | *08:06 | 4*01:03:01 | | *01:02:01 | *03:03:01 | *03:01 | *06:02:01 | *02:01:01 | *02:01:01 | *11:01:01 | *17:01:01 | SSP SSO NGS | DQB1*03:276N |
| 762 | *04:07 | *08:06 | 4*01:03 | | *01:02 | *03:03 | *03:01 | *06:02 | *02:01 | | *11:01 | *17:01 | NGS | |
| 771 | *04:07 | *08:06 | | | | | *03:01 | *06:02 | | | *11:01 | *17:01 | SSO NGS | |
| 774 | *04:07 | *08:06 | 4*01:03 | | *01:02 | *03:03 | *03:01 | *06:02 | | | *11:01 | *17:01 | SSP SSO | DRB1*08:54 DRB1*04:92 DQB1*03:73 DQB1*03:92 DQB1*03:93 |
| 792 | *04:07 | *08:06 | 4*01:03 | | *01:02 | *03:03 | *03:01 | *06:02 | *02:01 | *02:01 | *11:01 | *17:01 | SSO NGS | DRB1*04:92 |
| 793 | | | | | *01:02 | *03:03 | | | | | *11:01 | *17:01 | SSP | |
| 794 | *04:07:01 | *08:06 | 4*01:03:01 | | *01:02 | *03:03 | *03:01 | *06:02:01 | NT | NT | *11:01:01 | *17:01:01 | SSP SSO NGS RT-PCR | DRB1*04:92 |
| 2344 | *04:07:01 | *08:06 | NT | NT | NT | NT | *03:01:01 | *06:02:01 | NT | NT | *11:01:01 | *17:01:01 | NGS | |
| 2400 | *04:07 | *08:06 | 4*01:03 | NP | *01:02 | *03:03 | *03:01 | *06:02 | | | *11:01 | *17:01P | SSO NGS | DQB1*03:276N DQA1*03:02 DQA1*03:03 |
| 3135 | *04:07P | *08:06 | 4*01:03 | | *01:02 | *03:01 | *03:01P | *06:02P | *02:01 | | *11:01:01 | *17:01:01 | | |
| 3511 | *04:07 | *08:06 | 4*01:03 | | *01:02 | *03:03 | *03:01 | *06:02 | *02:01 | *02:01 | *11:01 | *17:01 | SSP SSO | |
| 3519 | *04:07 | *08:06 | 4*01:03 | | *01:02 | *03:03 | *03:01 | *06:02 | *02:01 | *02:01 | *11:01 | *17:01 | SSP NGS RT-PCR | |
| 3753 | *04:07 | *08:06 | | | | | *03:01 | *06:02 | | | *11:01 | *17:01 | SSO SBT | DRB1*04:92 DQB1*03:10 DQB1*03:69 DQB1*03:74 DQB1*03:194 DQB1*03:256 DQB1*03:264 DQB1*03:276N DQB1*03:292 DQB1*03:293 DQB1*06:48 DQB1*06:82 DQB1*06:122 DQB1*06:176 DQB1*06:286 DPB1*264:01 DPB1*343:01 DPB1*348:01 DQB1*06:208 DQB1*06:273 DPB1*413:01+ |

Table 5b: Individual laboratory results for B-cell #580 - Class II

| High resolution | | | | | | | | | | | | | | |
|-----------------|--------------|--------|------------|---------|-----------|--------------|------------|--------------|--------------|--------------|--------------|--------------|-------------|---|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 3966 | *04:07 | *08:06 | 4*01:03 | | | | *03:01 | *06:02 | | | | | SSP RT-PCR | |
| 4251 | *04:07:01G | *08:06 | 4*01:03 | | *01:02 | *03:03 | *03:01:01G | *06:02 | *02:01 | *02:01 | *11:01 | *17:01 | NGS | |
| 4337 | *04:07 | *08:06 | | | | | *03:01 | *06:02 | | | *11:01 | *17:01 | SSP SBT NGS | |
| 5130 | *04:07 | *08:06 | 4*01:03 | | *01:02 | *03:03 | *03:01 | *06:02 | | | *11:01 | *17:01 | SSO NGS | |
| 5133 | *04:07:01:01 | *08:06 | 4*01:03:01 | | *01:02:01 | *03:03:01:01 | *03:01:01 | *06:02:01:04 | *02:01:01:01 | *02:01:01:03 | *11:01:01:01 | *17:01:01:02 | NGS | |
| 5214 | | | | | | | | | | | *11:01G | *17:01G | RT-PCR | |
| 5219 | *04:07:01 | *08:06 | | | | | *03:01:01 | *06:02:01 | | | *11:01:01 | *17:01:01 | SSO NGS | |
| 5451 | *04:07:01 | *08:06 | | | | | | | | | | | SSO SBT | |
| | | | | | | | | | | | | | | DPB1*654:01 DPB1*732:01N DPB1*907:01 DPB1*131:01 DPB1*738:01N DPB1*846:01 DPB1*956:01 DPB1*1017:01 |
| 5462 | NT | NT | NT | NP | NT | NT | NT | NT | NT | | *11:01 | *17:01 | SSO | |
| 5488 | *04:07:01 | *08:06 | 4*01:03:01 | | *01:02:01 | *03:03:01 | *03:01:01G | *06:02:01 | *02:01:01 | | *11:01:01 | *17:01:01 | SSO NGS | |
| 5642 | *04:07 | *08:06 | | | | | *03:01 | *06:02 | | | | | SSP | |
| 8021 | *04:07 | *08:06 | 4*01:01 | 4*01:03 | *01:02 | *03:03 | *03:01 | *06:02 | *02:01 | | *11:01 | *17:01 | SSO NGS | |
| 8043 | *04:07 | *08:06 | | | *01:02 | *03:03 | *03:01 | *06:02 | | | | | SSP SSO | |
| 8086 | *04:07 | *08:06 | | | *01:02 | *03:03 | *03:01 | *06:02 | *02:01:01G | *02:01:01G | *11:01 | *17:01 | SBT | |
| 8122 | *04:07:01 | *08:06 | 4*01:03 | NP | *01:02:01 | *03:03:01 | *03:01:01 | *06:02:01 | *02:01:01 | | *11:01:01 | *17:01:01 | NGS | |

Table 6: Individual laboratory results for B-cell #580 - Class I

| Table 6: Individual laboratory results for B-cell #580 - Class I | | | | | | | | | | | | | | |
|--|----------------|-----|----------|----------|-------|-----------|-----------------|--------------|--------------|--------------|--------------|-----------|-----------------------|---|
| Center | Low resolution | | | | | | High resolution | | | | | | METHOD | Other Alleles |
| | HLA-A | | HLA-B | | HLA-C | | HLA-A | | HLA-B | | HLA-C | | | |
| 230 | | | | | | | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | NGS | |
| 278 | *02 | *32 | *15 | *40 | *02 | *03 | *02:01 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSP SSO | |
| 725 | *02 | *32 | *15 | *40 | *02 | *03 | | | | | | | SSP SSO | |
| 731 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05:01 | *32:01:01 | *15:10:01 | *40:02:01 | *02:02:02 | *03:04:02 | SSO SBT NGS RT-PCR | |
| 747 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05:01 | *32:01:01 | *15:10:01 | *40:02:01 | *02:02:02 | *03:04:02 | SSP SSO NGS | |
| 771 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSO NGS | |
| 774 | *02 | *32 | *15 | *40 | *02 | *03 | | | *15:10 | | | | SSP SSO | B*15:313 |
| 792 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSO NGS | |
| 793 | *02 | *32 | *15 | *40 | *02 | *03 | | | | | | | SSP | |
| 794 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05:01 | *32:01:01 | *15:10:01 | *40:02:01 | *02:02:02 | *03:04:02 | SSP SSO NGS RT-PCR | |
| 2344 | | | | | | | *02:05:01 | *32:01:01 | *15:10:01 | *40:02:01 | *02:02:02 | *03:04:02 | NGS | |
| 2400 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSO NGS | |
| 2847 | *02 | *32 | *15 | *40 | *02 | *03 | | | | | | | SSO | |
| 3135 | | | | | | | *02:05:01:01 | *32:01P | *15:10:01 | *40:02P | *02:02P | *03:04:02 | | |
| 3511 | | | | | | | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSP SSO | |
| 3519 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSP NGS RT-PCR | |
| 3753 | | | | | | | *02:02 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSO SBT | A*02:05 A*02:08 A*02:14 A*02:172 A*02:507 A*02:591 A*32:28 A*32:31 A*32:64 A*32:122 B*40:356 B*40:384 B*40:442 C*02:19 C*02:27 C*03:07 C*03:40 A*32:91 A*32:118 A*32:129 C*02:186 |
| 3966 | *02 | *32 | *15 | *40 | *02 | *03 | | | | | | | SSP RT-PCR | |
| 4079 | *02 | *32 | *15 | *40 | *02 | *03 | | | | | | | SSO | |
| 4251 | | | | | | | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | NGS | |
| 4337 | | | | | | | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSP SBT NGS | |
| 5130 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSO NGS | |
| 5133 | | | | | | | *02:05:01:01 | *32:01:01:01 | *15:10:01:01 | *40:02:01:08 | *02:02:02:01 | *03:04:02 | NGS | |
| 5214 | *02 | *32 | *15(B71) | *40(B61) | *02 | *03(Cw10) | | | | | | | RT-PCR | |
| 5219 | *02 | *32 | *15 | *40 | *02 | *03 | *02:05:01 | *32:01:01 | *15:10:01 | *40:02:01 | *02:02:02 | *03:04:02 | SSO NGS | |
| 5462 | *02 | *32 | *15 | *40 | *02 | *03 | NT | NT | NT | NT | NT | NT | SSO | |
| 5488 | | | | | | | *02:05:01 | *32:01:01 | *15:10:01 | *40:02:01 | *02:02:02 | *03:04:02 | SSO NGS | |
| 8021 | | | | | | | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SSO NGS | |
| 8029 | *02 | *32 | *15 | *40 | *02 | *03 | | | | | | | SSO | |
| 8068 | *02 | *32 | *15 | *40 | *02 | *03 | | | | | | | SSO | |
| 8086 | | | | | | | *02:05 | *32:01 | *15:10 | *40:02 | *02:02 | *03:04 | SBT | |
| 8122 | | | | | | | *02:05:01 | *32:01:01 | *15:10:01 | *40:02:01 | *02:02:02 | *03:04:02 | NGS | |

CELL EXCHANGE #419

The results for Cell Exchange #419 are summarized in Table 7 - 11. Molecular typing results for individual laboratories are listed in Tables 12 – 19 for each sample and individual serological results for each sample are listed in Table 20. Thirteen labs submitted low and/or high resolution class II results

for this study. We would like to thank each of them for sharing their results and encourage other labs to do so as well so that the class II assignment can be graded. Haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1673. A*24:02-A*33:05-B*14:02-B*45:01-C*08:02-C*16:01/DRB1*04:03-DRB1*10:01-DRB4*01:03-DQA1*01:05-DQA1*03:01-DQB1*03:02-DQB1*05:01-DPA1*01:03-DPA1*02:01-DPB1*02:01-DPB1*03:01 is the reported HLA type for this cell from a Hispanic donor. One possible association present in the cell is A*24:02-B*45:01-C*16:01, observed in Hispanics, with HF = 0.00139. The other likely association present is A*33:05-B*14:02-C*08:02, observed exclusively in Caucasians, with HF = 0.00025.

This cell was examined numerous times in the Exchange as cells 1565 (2016), 1504 (2013), and 1357 (2009). It was also studied in the class I Extract Exchange as extracts 508 (2011) and 436 (2008). In this present retyping, the assignment of A*33:05 improved from 88% in 2016 to 100%. Unfortunately, only B*14:02 could be graded for this sample. At the time of the submission deadline, there were <10 labs reporting high resolution results for all other alleles.

Cell 1674. A*02:01-A*68:01-B*40:20-B*51:02-C*03:04-C*08:01/DRB1*08:02-DRB1*14:06-DRB3*01:01-DQA1*04:01-DQA1*05:03-DQB1*03:01-DQB1*04:02-DPA1*01:03-DPB1*04:02 is the reported HLA type for this sample from a Hispanic donor. Likely associations present in this cell are A*68:01-B*40:20-C*03:04 and A*02:01-B*51:02-C*08:01, observed in Hispanics, with respective HF = 0.00051 and 0.00157.

This cell was examined previously in the Exchange as cells 1547 (2015), 1473 (2012), 1415 (2010), and 1386 (2010). In this present retyping good agreement (100%) was achieved for B*40:20 and C*03:04 by labs reporting at high resolution. All other alleles could not be graded, as < 10 labs reported high resolution results by the submission deadline.

Cell 1675. A*29:02-A*30:02-B*15:10-B*49:01-C*03:04-C*07:01/DRB1*03:01-DRB1*15:03-DRB3*02:02-DRB5*01:01-DQA1*01:02-DQA1*05:01-DQB1*02:01-DQB1*06:02-DPA1*01:03-DPA1*02:02-DPB1*01:01-DPB1*02:01 is the reported HLA type for this sample from a Black donor. Likely associations present in this cell are A*29:02-B*49:01-DRB1*15:03 and A*30:02-B*15:10-DRB1*03:01, with respective HF = 0.00351 and 0.00103, in African American populations.

This B*15:10 cell was first examined in the Exchange back in 2002 (Cell 1330). It was subsequently examined 2 more times as cells 1466 (2012) and 1358 (2009). In this present retyping, B*15:10 was reported by 100%, with 2 labs assigning B*15:10:01. Once again, only this single allele could be graded due to <10 labs reporting high resolution typing results by the submission deadline.

Cell 1676. A*11:01-A*34:05-B*15:35-B*35:01-C*07:02-C*08:01-DRB1*08:03-DRB1*15:02-DRB5*01:01-DQA1*01:02-DQA1*01:03-DQB1*05:02-DQB1*06:01-DPA1*02:02-DPB1*01:01-DPB1*05:01 is the reported consensus type for this cell from a Filipino donor. Likely associations present in this cell are B*15:35-C*07:02 and B*3501-C*08:01, observed commonly in Asians, with respective HF = 0.00545 and 0.00350.

This cell was studied numerous times in the Exchange as cells 1544 (2015), 1432 (2011), 1372 (2009), 1347 (2008), and as extracts 416 (2008) and 413 (2008). In this present retyping B*15:35 was assigned by 100% of labs. B*15:35 was the only allele graded in this sample, as the grading criteria for high resolution typing was not met (< 10 labs) for the other alleles by the results submission deadline.

Table 7: Summary of the 419th Cell Exchange - DNA Typing

Cell 1673

| | | | | | | |
|-----------------------------|-------------------------------------|---------|-------------------------------------|--------|-------------------------------------|---------|
| DNA Typing - class I | 10 labs High; 15 labs low- A | %(n) | 12 labs High; 15 labs low- B | %(n) | 10 labs High; 14 labs low- C | %(n) |
| | A*24:02:01:01 | 20(2) | B*14:02:01:01 | 17(2) | C*08:02:01:01 | 10(1) |
| | A*24:02:01 | 10(1) | B*14:02:01 | 8 (1) | C*08:02:01 | 20(2) |
| | A*24:02 | 70(7) | B*14:02 | 75(9) | C*08:02 | 70(7) |
| | A*24 | 100(15) | B*14(B65) | 7 (1) | C*08 | 100(14) |
| | | | B*14 | 93(14) | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | 10 labs High; 15 labs low- A | %(n) | 10 labs High; 15 labs low- B | %(n) | 10 labs High; 14 labs low- C | %(n) |
| | A*33:05 | 100(10) | B*45:01:01:03 | 10(1) | C*16:01:01:01 | 20(2) |
| | A*33 | 100(15) | B*45:01:01 | 20(2) | C*16:01:01 | 10(1) |
| | | | B*45:01P | 10(1) | C*16:01 | 70(7) |
| | | B*45:01 | 60(6) | C*16 | 100(14) | |
| | | B*45 | 100(15) | | | |
| | | | | | | |
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|------------------------------|--------------------------------------|---------|---|-------|--------------------------------------|---------|--------------------------------------|---------|-------------------------------------|------------|-------------------------------------|-------|
| DNA Typing - class II | 8 labs High; 11 labs low-DRB1 | %(n) | 5 labs High; 8 labs low-DRB3/4/5 | %(n) | 4 labs High; 10 labs Low-DQA1 | %(n) | 7 labs High; 10 labs Low-DQB1 | %(n) | 4 labs High; 7 labs Low-DPA1 | %(n) | 8 labs High; 8 labs Low-DPB1 | %(n) |
| | DRB1*04:03:01:01 | 13(1) | DRB4*01:03:01 | 20(1) | DQA1*01:05:01 | 50(2) | DQB1*03:02:01:01 | 14(1) | DPA1*01:03:01:03 | 25(1) | DPB1*02:01:02 | 38(3) |
| | DRB1*04:03:01 | 25(2) | DRB4*01:03 | 60(3) | DQA1*01:05 | 50(2) | DQB1*03:02:01 | 14(1) | DPA1*01:03:01 | 25(1) | DPB1*02:01:02G | 12(1) |
| | DRB1*04:03 | 62(5) | <i>DRB3*01:03</i> | 20(1) | DQA1*01 | 100(10) | DQB1*03:02 | 71(5) | DPA1*01:03 | 50(2) | DPB1*02:01P | 12(1) |
| | DRB1*04 | 100(11) | DRB4*01 | 75(6) | | | DQB1*03(DQ8) | 10(1) | DPA1*01 | 100(7) | DPB1*02:01 | 38(3) |
| | | | DRB4*PRESENT | 12(1) | | | DQB1*03 | 90(9) | | | DPB1*02(DP201) | 62(5) |
| | | | <i>DRB3*01</i> | 12(1) | | | | | | | DPB1*02 | 38(3) |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 8 labs High; 10 labs low-DRB1 | %(n) | | | 4 labs High; 10 labs Low-DQA1 | %(n) | 7 labs High; 10 labs Low-DQB1 | %(n) | 4 labs High; 7 labs Low-DPA1 | %(n) | 8 labs High; 8 labs Low-DPB1 | %(n) |
| | DRB1*10:01:01 | 38(3) | | | DQA1*03:01:01 | 50(2) | DQB1*05:01:01:02 | 14(1) | DPA1*02:01:01:02 | 25(1) | DPB1*03:01:01 | 38(3) |
| | DRB1*10:01 | 62(5) | | | DQA1*03:01 | 50(2) | DQB1*05:01:01 | 29(2) | DPA1*02:01:02 | 25(1) | DPB1*03:01:01G | 12(1) |
| | DRB1*10 | 100(11) | | | DQA1*03 | 100(10) | DQB1*05:01 | 57(4) | DPA1*02:01 | 50(2) | DPB1*03:01P | 12(1) |
| | | | | | | DQB1*05 | 100(10) | DPA1*02 | 100(7) | DPB1*03:01 | 38(3) | |
| | | | | | | | | | | DPB1*03 | 100(8) | |
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Table 8: Summary of the 419th Cell Exchange - DNA Typing

Cell 1674

| DNA Typing - class I | | 10 labs High; 15 labs low- A | | 13 labs High; 15 labs low- B | | 11 labs High; 14 labs low- C | | | | | | | |
|-----------------------|--|--------------------------------------|---------|---|---------|--------------------------------------|---------|--------------------------------------|---------|-------------------------------------|--------|-------------------------------------|-------|
| | | | %(n) | | %(n) | | %(n) | | | | | | |
| | | A*02:01:01:01 | 10(1) | B*40:20:01:01 | 8 (1) | C*03:04:01:02 | 9 (1) | | | | | | |
| | | A*02:01:01 | 20(2) | B*40:20 | 92(12) | C*03:04:01 | 18(2) | | | | | | |
| | | A*02:01 | 70(7) | B*40 | 100(15) | C*03:04 | 73(8) | | | | | | |
| | | A*02 | 100(15) | | | C*03 | 100(14) | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| DNA Typing - class I | | 10 labs High; 15 labs low- A | | 10 labs High; 15 labs low- B | | 10 labs High; 14 labs low- C | | | | | | | |
| | | | %(n) | | %(n) | | %(n) | | | | | | |
| | | A*68:01:02:01 | 20(2) | B*51:02:01:01 | 10(1) | C*08:01:01:01 | 20(2) | | | | | | |
| | | A*68:01:02 | 10(1) | B*51:02:01 | 20(2) | C*08:01:01 | 10(1) | | | | | | |
| | | A*68:01 | 70(7) | B*51:02 | 70(7) | C*08:01 | 70(7) | | | | | | |
| | | A*68 | 100(15) | B*51 | 100(15) | C*08 | 100(14) | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| DNA Typing - class II | | 9 labs High; 11 labs low-DRB1 | | 5 labs High; 8 labs low-DRB3/4/5 | | 4 labs High; 10 labs Low-DQA1 | | 7 labs High; 10 labs Low-DQB1 | | 4 labs High; 7 labs Low-DPA1 | | 7 labs High; 8 labs Low-DPB1 | |
| | | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) |
| | | DRB1*08:02:01 | 33(3) | DRB3*01:01:02 | 40(2) | DQA1*04:01:01:07 | 25(1) | DQB1*03:01:01 | 29(2) | DPA1*01:03:01 | 50(2) | DPB1*04:02:01:02 | 14(1) |
| | | DRB1*08:02 | 67(6) | DRB3*01:01P | 20(1) | DQA1*04:01:01 | 25(1) | DQB1*03:01 | 71(5) | DPA1*01:03 | 50(2) | DPB1*04:02:01 | 14(1) |
| | | DRB1*08 | 100(11) | DRB3*01:01 | 40(2) | DQA1*04:01 | 50(2) | DQB1*03 | 100(10) | DPA1*01 | 100(7) | DPB1*04:02 | 71(5) |
| | | | | DRB3*01 | 87(7) | DQA1*04 | 100(10) | | | | | DPB1*04(DP402) | 62(5) |
| | | | | DRB3*PRESENT | 13(1) | | | | | | | DPB1*04 | 38(3) |
| | | | | | | | | | | | | | |
| DNA Typing - class II | | 9 labs High; 11 labs low-DRB1 | | | | 4 labs High; 10 labs Low-DQA1 | | 7 labs High; 10 labs Low-DQB1 | | | | | |
| | | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) |
| | | DRB1*14:06:01 | 33(3) | | | DQA1*05:03:01:01 | 25(1) | DQB1*04:02:01:04 | 14(1) | | | | |
| | | DRB1*14:06 | 67(6) | | | DQA1*05:03:01 | 25(1) | DQB1*04:02:01 | 29(2) | | | | |
| | | DRB1*14 | 100(11) | | | DQA1*05:03 | 50(2) | DQB1*04:02 | 57(4) | | | | |
| | | | | | | DQA1*05 | 100(10) | DQB1*04 | 100(10) | | | | |
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Table 9: Summary of the 419th Cell Exchange - DNA Typing

Cell 1675

| DNA Typing - class I | | <u>9 labs High; 12 labs low- A</u> | | <u>12 labs High; 12 labs low- B</u> | | <u>10 labs High; 11 labs low- C</u> | | | | | | | |
|-----------------------|---------------|-------------------------------------|------|---|---------|-------------------------------------|---------|-------------------------------------|--------|-------------------------------------|--------|-------------------------------------|--------|
| | | | %(n) | | %(n) | | %(n) | | | | | | |
| | A*29:02:01:01 | 22(2) | | B*15:10:01:01 | 8 (1) | C*03:04:02 | 20(2) | | | | | | |
| | A*29:02 | 78(7) | | B*15:10:01 | 8 (1) | C*03:04 | 80(8) | | | | | | |
| | A*29 | 100(12) | | B*15:10 | 83(10) | C*03 | 100(11) | | | | | | |
| | | | | B*15 | 100(12) | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| DNA Typing - class II | | <u>7 labs High; 8 labs low-DRB1</u> | | <u>4 labs High; 5 labs low-DRB3/4/5</u> | | <u>3 labs High; 7 labs Low-DQA1</u> | | <u>6 labs High; 7 labs Low-DQB1</u> | | <u>2 labs High; 6 labs Low-DPA1</u> | | <u>6 labs High; 4 labs Low-DPB1</u> | |
| | | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) |
| | DRB1*03:01:01 | 28(2) | | DRB3*02:02:01:01 | 25(1) | DQA1*01:02:01 | 33(1) | DQB1*02:01:01 | 17(1) | DPA1*01:03:03 | 50(1) | DPB1*01:01:01 | 33(2) |
| | DRB1*03:01P | 28(2) | | DRB3*02:02 | 75(3) | DQA1*01:02 | 67(2) | DQB1*02:01 | 83(5) | DPA1*01:03 | 50(1) | DPB1*01:01 | 67(4) |
| | DRB1*03:01 | 43(3) | | DRB3*02 | 100(5) | DQA1*01 | 100(7) | DQB1*02 | 100(7) | DPA1*01 | 100(6) | DPB1*01 | 100(4) |
| | DRB1*03 | 100(8) | | | | | | | | | | | |
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| DNA Typing - class II | | <u>8 labs High; 8 labs low-DRB1</u> | | <u>4 labs High; 5 labs low-DRB3/4/5</u> | | <u>3 labs High; 7 labs Low-DQA1</u> | | <u>6 labs High; 7 labs Low-DQB1</u> | | <u>2 labs High; 6 labs Low-DPA1</u> | | <u>6 labs High; 4 labs Low-DPB1</u> | |
| | | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) |
| | DRB1*15:03:01 | 25(2) | | DRB5*01:01:01:01 | 25(1) | DQA1*05:01:01:01 | 33(1) | DQB1*06:02:01:01 | 17(1) | DPA1*02:02:02:04 | 50(1) | DPB1*02:01:19 | 17(1) |
| | DRB1*15:03 | 75(6) | | DRB5*01:01 | 75(3) | DQA1*05:01 | 67(2) | DQB1*06:02:01 | 17(1) | DPA1*02:02 | 50(1) | DPB1*02:01:02 | 17(1) |
| | DRB1*15 | 100(8) | | DRB5*01 | 100(5) | DQA1*05 | 100(7) | DQB1*06:02 | 66(4) | DPA1*02 | 100(6) | DPB1*02:01 | 66(4) |
| | | | | | | | | DQB1*06 | 100(7) | | | DPB1*02(DP201) | 75(3) |
| | | | | | | | | | | | | DPB1*02 | 25(1) |
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Table 10: Summary of the 419th Cell Exchange - DNA Typing

Cell 1676

| DNA Typing - class I | <u>9 labs High; 12 labs low- A</u> | | <u>12 labs High; 12 labs low- B</u> | | <u>9 labs High; 11 labs low- C</u> | |
|----------------------|------------------------------------|---------|-------------------------------------|---------|------------------------------------|---------|
| | | %(n) | | %(n) | | %(n) |
| | A*11:01:01:01 | 22(2) | B*15:35 | 100(12) | C*07:02:01:01 | 11(1) |
| | A*11:01 | 78(7) | B*15 | 100(12) | C*07:02:01 | 11(1) |
| | A*11 | 100(12) | | | C*07:02 | 78(7) |
| | | | | | C*07 | 100(11) |
| | | | | | | |
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| | | | | | | |
| DNA Typing - class I | <u>9 labs High; 12 labs low- A</u> | | <u>9 labs High; 12 labs low- B</u> | | <u>9 labs High; 11 labs low- C</u> | |
| | | %(n) | | %(n) | | %(n) |
| | A*34:05 | 100(9) | B*35:01:01:02 | 11(1) | C*08:01:01:01 | 22(2) |
| | A*34 | 100(12) | B*35:01:01 | 11(1) | C*08:01 | 78(7) |
| | | | B*35:01 | 78(7) | C*08 | 100(11) |
| | | | B*35 | 100(12) | | |
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| DNA Typing - class II | <u>8 labs High; 8 labs low-DRB1</u> | | <u>4 labs High; 5 labs low-DRB3/4/5</u> | | <u>3 labs High; 7 labs Low-DQA1</u> | | <u>6 labs High; 7 labs Low-DQB1</u> | | <u>2 labs High; 5 labs Low-DPA1</u> | | <u>6 labs High; 5 labs Low-DPB1</u> | |
|-----------------------|-------------------------------------|--------|---|--------|-------------------------------------|--------|-------------------------------------|--------|-------------------------------------|--------|-------------------------------------|--------|
| | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) |
| | DRB1*08:03:02 | 25(2) | DRB5*01:01:01:01 | 25(1) | DQA1*01:02:01 | 33(1) | DQB1*05:02:01 | 33(2) | DPA1*02:02:02 | 50(1) | DPB1*01:01:01 | 33(2) |
| | DRB1*08:03 | 75(6) | DRB5*01:01 | 75(3) | DQA1*01:02 | 67(2) | DQB1*05:02 | 67(4) | DPA1*02:02 | 50(1) | DPB1*01:01 | 67(4) |
| | DRB1*08 | 100(8) | DRB5*01 | 100(5) | DQA1*01 | 100(7) | DQB1*05 | 100(7) | DPA1*02 | 100(5) | DPB1*01 | 100(5) |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| DNA Typing - class II | <u>8 labs High; 8 labs low-DRB1</u> | | | | <u>3 labs High -DQA1</u> | | <u>6 labs High; 7 labs Low-DQB1</u> | | | | <u>6 labs High; 5 labs Low-DPB1</u> | |
| | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) | | %(n) |
| | DRB1*15:02:01 | 25(2) | | | DQA1*01:03:01 | 33(1) | DQB1*06:01:01:01 | 17(1) | | | DPB1*05:01:01 | 33(2) |
| | DRB1*15:02:01G | 13(1) | | | DQA1*01:03 | 67(2) | DQB1*06:01 | 83(5) | | | DPB1*05:01 | 67(4) |
| | DRB1*15:02 P | 25(2) | | | | | DQB1*06 | 100(7) | | | DPB1*05 | 100(5) |
| | DRB1*15:02 | 37(3) | | | | | | | | | | |
| | DRB1*15 | 100(8) | | | | | | | | | | |
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Table 11. Summary of the 419th Cell Exchange (Cell #1673- 1676)

| Serological typing | | | | | | | |
|--------------------------------|----------|--------------------------------|----------|-----------------------------|----------|--------------------------------|----------|
| (Hispanic) Cell 1673 | | (Hispanic) Cell 1674 | | (Black) Cell 1675 | | (Filipino) Cell 1676 | |
| (7 Samples Typed) | | (7 Samples Typed) | | (3 Samples Typed) | | (4 Samples Typed) | |
| A24 | 100.0% | A2 | 100.0% | A29 | 100.0% | A11 | 100.0% |
| | [100.0%] | | [100.0%] | | [100.0%] | | [100.0%] |
| A33 | 100.0% | A68 | 57.1% | A30 | 100.0% | A34 | 75.0% |
| | [100.0%] | A28 | 42.9% | | [100.0%] | A10 | 25.0% |
| | | | [100.0%] | | | | [100.0%] |
| B14 | 57.1% | B61 | 42.9% | B71 | 33.3% | B62 | 100.0% |
| B65 | 42.9% | B40 | 28.6% | B70 | 66.7% | | [100.0%] |
| | [100.0%] | | [71.4%] | | [100.0%] | | |
| B45 | 71.4% | B51 | 71.4% | B49 | 100.0% | B35 | 100.0% |
| B12 | 28.6% | B5 | 14.3% | | [100.0%] | | |
| | [100.0%] | | [85.7%] | | [0.0%] | | |
| Cw8 | 28.6% | Cw3 | 28.6% | | | Bw6 | 75.0% |
| | | | [28.6%] | | | | |
| Bw6 | 85.7% | Cw8 | 28.6% | Bw4 | 100.0% | | |
| | | | | Bw6 | 100.0% | | |
| | | Bw4 | 71.4% | | | | |
| | | | | | | | |
| | | Bw6 | 71.4% | | | | |
| | | | | | | | |
| Others Found | | Others Found | | Others Found | | Others Found | |
| Cw5 | 14.3% | B53 | 28.6% | | | | |
| | | B46 | 14.3% | | | | |
| | | B35 | 14.3% | | | | |

Table 12. Individual laboratory results for Cell #1673 - Class I

| Center | Low Resolution | | | | | | High Resolution | | | | | | Method | Other Alleles |
|--------|----------------|-----|----------|-----|-------|-----|-----------------|--------|--------------|--------------|--------------|--------------|-----------------------|---------------|
| | HLA-A | | HLA-B | | HLA-C | | HLA-A | | HLA-B | | HLA-C | | | |
| 278 | *24 | *33 | *14 | *45 | *08 | *16 | *24:02 | *33:05 | *14:02 | *45:01 | *08:02 | *16:01 | SSP SSO | |
| 725 | *24 | *33 | *14 | *45 | *08 | *16 | | | | | | | SSO | |
| 745 | | | | | | | *24:02:01:01 | *33:05 | *14:02:01:01 | *45:01:01 | *08:02:01 | *16:01:01:01 | SSP SBT NGS | |
| 747 | *24 | *33 | *14 | *45 | *08 | *16 | *24:02:01 | *33:05 | *14:02:01 | *45:01:01 | *08:02:01 | *16:01:01 | SSP SSO NGS | |
| 762 | | | | | | | *24:02 | *33:05 | *14:02 | *45:01 | *08:02 | *16:01 | NGS | |
| 771 | *24 | *33 | *14 | *45 | *08 | *16 | *24:02 | *33:05 | *14:02 | *45:01 | *08:02 | *16:01 | SSO NGS | |
| 774 | *24 | *33 | *14 | *45 | *08 | *16 | | | | | | | SSP SSO | |
| 3186 | *24 | *33 | *14 | *45 | *08 | *16 | | | | | | | | DPB1*104 |
| 3545 | *24 | *33 | *14 | *45 | *08 | *16 | *24:02 | *33:05 | *14:02 | *45:01 | *08:02 | *16:01 | SSO SBT | |
| 3808 | *24 | *33 | *14 | *45 | *08 | *16 | | | *14:02 | | | | SSO | |
| 4079 | *24 | *33 | *14 | *45 | *08 | *16 | *24:02 | *33:05 | *14:02 | *45:01 | *08:02 | *16:01 | SSP NGS | |
| 4251 | | | | | | | *24:02 | *33:05 | *14:02 | *45:01 | *08:02 | *16:01 | NGS | |
| 5133 | | | | | | | *24:02:01:01 | *33:05 | *14:02:01:01 | *45:01:01:03 | *08:02:01:01 | *16:01:01:01 | NGS | |
| 5214 | *24 | *33 | *14(B65) | *45 | *08 | *16 | | | | | | | | |
| 5462 | *24 | *33 | *14 | *45 | *08 | *16 | *24:02 | *33:05 | *14:02 | *45:01P | *08:02 | *16:01 | SSO NGS | B*45:25 |
| 6649 | *24 | *33 | *14 | *45 | | | | | | | | | SSO | |
| 8001 | *24 | *33 | *14 | *45 | *08 | *16 | | | *14:02 | | | | SSP SSO | |
| 8103 | *24 | *33 | *14 | *45 | *08 | *16 | | | | | | | SSO | |
| 8119 | *24 | *33 | *14 | *45 | *08 | *16 | | | | | | | SSP SBT NGS RT-PCR | B*14:02 |

Table 13a: Individual laboratory results for Cell #1673 - Class II

| Low resolution | | | | | | | | | | | | | | |
|----------------|------|-----|-----------|----|------|-----|----------|-----|------|-----|----------------|-----|-------------|---------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 747 | *04 | *10 | 4*PRESENT | | *01 | *03 | *03 | *05 | *01 | *02 | *02 | *03 | SSP SSO NGS | |
| 771 | *04 | *10 | | | *01 | *03 | *03 | *05 | | | *02 | *03 | SSO NGS | |
| 3186 | *04 | *10 | 4*01 | | *01 | *03 | *03 | *05 | *01 | *02 | *02(DP201) *03 | | | DPB1*104 |
| 3545 | *04 | *10 | | | | | | | | | | | SSO SBT | |
| 3808 | *04 | *10 | NT | NT | *01 | *03 | *03 | *05 | *01 | *02 | *02(DP201) | *03 | SSO | |
| 4079 | *04 | *10 | 3*01 | | *01 | *03 | *03 | *05 | *01 | *02 | *02(DP201) | *03 | SSP NGS | |
| 5214 | *04 | *10 | 4*01 | | *01 | *03 | *03(DQ8) | *05 | *01 | *02 | *02(DP201) | *03 | | |
| 5462 | *04 | *10 | 4*01 NP | | *01 | *03 | *03 | *05 | *01 | *02 | NT | NT | SSO NGS | |
| 8001 | *04 | *10 | 4*01 | | *01 | *03 | *03 | *05 | | | | | SSP SSO | |
| 8103 | *04 | *10 | 4*01 4*01 | | *01 | *03 | *03 | *05 | *01 | *02 | *02 | *03 | SSO | |
| | | | | | | | | | | | | | SSP SBT NGS | |
| 8119 | *04 | *10 | 4*01 | | *01 | *03 | *03 | *05 | | | *02(DP201) | *03 | RT-PCR | |

Table 13b: Individual laboratory results for Cell #1673 - Class II

| High resolution | | | | | | | | | | | | | | |
|-----------------|--------------|-----------|------------|--|-----------|-----------|--------------|--------------|--------------|--------------|------------|------------|-------------|------------------------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 745 | *04:03:01 | *10:01:01 | | | | | *03:02 | *05:01:01 | | | *02:01:02 | *03:01:01 | SSP SBT NGS | DQB1*03:289 |
| 747 | *04:03:01 | *10:01:01 | 4*01:03:01 | | *01:05:01 | *03:01:01 | *03:02:01 | *05:01:01 | *01:03:01 | *02:01:01 | *02:01:02 | *03:01:01 | SSP SSO NGS | DQB1*03:289 DQB1*05:01:33 |
| 771 | *04:03 | *10:01 | | | | | *03:02 | *05:01 | | | *02:01 | *03:01 | SSO NGS | |
| 3545 | *04:03 | *10:01 | | | | | | | | | | | SSO SBT | |
| 3808 | | | | | | | | | | | *02:01:02G | *03:01:01G | SSO | |
| 4079 | *04:03 | *10:01 | 3*01:03 | | *01:05 | *03:01 | *03:02 | *05:01 | *01:03 | *02:01 | *02:01 | *03:01 | SSP NGS | |
| 5133 | *04:03:01:01 | *10:01:01 | 4*01:03:01 | | *01:05:01 | *03:01:01 | *03:02:01:01 | *05:01:01:02 | *01:03:01:03 | *02:01:01:02 | *02:01:02 | *03:01:01 | NGS | |
| 5462 | *04:03 | *10:01 | 4*01:03 NP | | *01:05 | *03:01 | *03:02 | *05:01 | *01:03 | *02:01 | *02:01P | *03:01P | SSO NGS | DPB1*124:01 DPB1*352:01 |
| 8001 | *04:03 | *10:01 | 4*01:03 | | | | *03:02 | *05:01 | | | *02:01 | *03:01 | SSP SSO | |
| | | | | | | | | | | | | | SSP SBT NGS | |
| 8119 | NT | | | | | | | | | | | | RT-PCR | |

Table 14. Individual laboratory results for Cell #1674 - Class I

| Center | Low Resolution | | | | | | High Resolution | | | | | | Method | Other Alleles |
|--------|----------------|-----|-------|-----|-------|-----|-----------------|--------------|--------------|--------------|--------------|--------------|-----------------------|-------------------|
| | HLA-A | | HLA-B | | HLA-C | | HLA-A | | HLA-B | | HLA-C | | | |
| 278 | *02 | *68 | *40 | *51 | *03 | *08 | *02:01 | *68:01 | *40:20 | *51:02 | *03:04 | *08:01 | SSP SSO | |
| 725 | *02 | *68 | *40 | *51 | *03 | *08 | | | | | | | SSO | |
| 745 | | | | | | | *02:01:01:01 | *68:01:02:01 | *40:20 | *51:02:01 | *03:04:01 | *08:01:01:01 | SSP SBT NGS | |
| 747 | *02 | *68 | *40 | *51 | *03 | *08 | *02:01:01 | *68:01:02 | *40:20 | *51:02:01 | *03:04:01 | *08:01:01 | SSP SSO NGS | A*02:614 A*68:164 |
| 762 | | | | | | | *02:01 | *68:01 | *40:20 | *51:02 | *03:04 | *08:01 | NGS | A*02:614 A*68:164 |
| 771 | *02 | *68 | *40 | *51 | *03 | *08 | *02:01 | *68:01 | *40:20 | *51:02 | *03:04 | *08:01 | SSO NGS | |
| 774 | *02 | *68 | *40 | *51 | *03 | *08 | | | *40:20 | | | | SSP SSO | B*40:159 |
| 3186 | *02 | *68 | *40 | *51 | *03 | *08 | | | | | | | | |
| 3545 | *02 | *68 | *40 | *51 | *03 | *08 | *02:01 | *68:01 | *40:20 | *51:02 | *03:04 | *08:01 | SSO SBT | |
| 3808 | *02 | *68 | *40 | *51 | *03 | *08 | | | *40:20 | | | | SSO | |
| 4079 | *02 | *68 | *40 | *51 | *03 | *08 | *02:01 | *68:01 | *40:20 | *51:02 | *03:04 | *08:01 | SSP NGS | |
| 4251 | | | | | | | *02:01 | *68:01 | *40:20 | *51:02 | *03:04 | *08:01 | NGS | |
| 5133 | | | | | | | *02:01:01 | *68:01:02:01 | *40:20:01:01 | *51:02:01:01 | *03:04:01:02 | *08:01:01:01 | NGS | |
| 5214 | *02 | *68 | *40 | *51 | *03 | *08 | | | | | | | | |
| 5462 | *02 | *68 | *40 | *51 | *03 | *08 | *02:01 | *68:01 | *40:20 | *51:02 | *03:04 | *08:01 | SSO NGS | |
| 6649 | *02 | *68 | *40 | *51 | | | | | | | | | SSO | |
| 8001 | *02 | *68 | *40 | *51 | *03 | *08 | | | *40:20 | | *03:04 | | SSP SSO | |
| 8103 | *02 | *68 | *40 | *51 | *03 | *08 | | | | | | | SSO | |
| 8119 | *02 | *68 | *40 | *51 | *03 | *08 | | | | | | | SSP SBT NGS RT-PCR | B*40:20 |

Table 15a: Individual laboratory results for Cell #1674 - Class II

| Low resolution | | | | | | | | | | | | | | |
|----------------|------|-----|-----------|----|------|-----|------|-----|------|-----|------------|-----------|---------------|---------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 747 | *08 | *14 | 3*PRESENT | | *04 | *05 | *03 | *04 | *01 | *01 | *04 | *04 | SSP SSO NGS | |
| 771 | *08 | *14 | | | *04 | *05 | *03 | *04 | | | *04 | | SSO NGS | |
| 3186 | *08 | *14 | 3*01 | | *04 | *05 | *03 | *04 | *01 | *01 | *04(DP402) | 04(DP402) | | |
| 3545 | *08 | *14 | | | | | | | | | | | SSO SBT | |
| 3808 | *08 | *14 | NT | NT | *04 | *05 | *03 | *04 | *01 | *01 | *04(DP402) | 04(DP402) | SSO | |
| 4079 | *08 | *14 | 3*01 | | *04 | *05 | *03 | *04 | *01 | | *04(DP402) | | SSP NGS | |
| 5214 | *08 | *14 | 3*01 | | *04 | *05 | *03 | *04 | *01 | | *04(DP402) | | | |
| 5462 | *08 | *14 | 3*01 | | *04 | *05 | *03 | *04 | *01 | | NT | | SSO NGS | |
| 8001 | *08 | *14 | 3*01 | | *04 | *05 | *03 | *04 | | | | | SSP SSO | |
| 8103 | *08 | *14 | 3*01 | | *04 | *05 | *03 | *04 | *01 | *01 | *04 | *04 | SSO | |
| 8119 | *08 | *14 | 3*01 | | *04 | *05 | *03 | *04 | | | *04(DP402) | | SSP SBT NGS F | |

Table 15b: Individual laboratory results for Cell #1674 - Class II

| High resolution | | | | | | | | | | | | | | |
|-----------------|-----------|-----------|------------|--|--------------|--------------|-----------|--------------|-----------|-----------|--------------|-----------|-----------------------|---------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 745 | *08:02:01 | *14:06:01 | | | | | *03:01 | *04:02:01 | | | *04:02:01:02 | | SSP SBT NGS | DQB1*03:276N |
| 747 | *08:02:01 | *14:06:01 | 3*01:01:02 | | *04:01:01 | *05:03:01 | *03:01:01 | *04:02:01 | *01:03:01 | *01:03:01 | *04:02 | *04:02:01 | SSP SSO NGS | DQB1*03:276N |
| 771 | *08:02 | *14:06 | | | | | *03:01 | *04:02 | | | *04:02 | | SSO NGS | |
| 3545 | *08:02 | *14:06 | | | | | | | | | | | SSO SBT | |
| 3808 | *08:02 | *14:06 | | | | | | | | | | | SSO | |
| 4079 | *08:02 | *14:06 | 3*01:01 | | *04:01 | *05:03 | *03:01 | *04:02 | *01:03 | | *04:02 | | SSP NGS | |
| 5133 | *08:02:01 | *14:06:01 | 3*01:01:02 | | *04:01:01:07 | *05:03:01:01 | *03:01:01 | *04:02:01:04 | *01:03:01 | | *04:02:01 | | NGS | |
| 5462 | *08:02 | *14:06 | 3*01:01P | | *04:01 | *05:03 | *03:01 | *04:02 | *01:03 | | *04:02 | | SSO NGS | DRB3*01:62 |
| 8001 | *08:02 | *14:06 | 3*01:01 | | | | *03:01 | *04:02 | | | *04:02 | | SSP SSO | |
| 8119 | NT | | | | | | | | | | | | SSP SBT NGS RT-PCR | |

Table 16. Individual laboratory results for Cell #1675 - Class I

| Center | Low Resolution | | | | | | High Resolution | | | | | | Method | Other Alleles |
|--------|----------------|-----|-------|-----|-------|-----|-----------------|--------------|--------------|--------------|-----------|--------------|-----------------------|----------------------|
| | HLA-A | | HLA-B | | HLA-C | | HLA-A | | HLA-B | | HLA-C | | | |
| 278 | *29 | *30 | *15 | *49 | *03 | *07 | *29:02 | *30:02 | *15:10 | *49:01 | *03:04 | *07:01 | SSP SSO | |
| 725 | *29 | *30 | *15 | *49 | *03 | *07 | | | | | | | SSO | |
| 745 | | | | | | | *29:02:01:01 | *30:02:01:02 | *15:10:01 | *49:01:01 | *03:04:02 | *07:01:01 | SSP SBT NGS | |
| 747 | NT | | | | | | | | | | | | SSP SSO NGS | |
| 762 | | | | | | | *29:02 | *30:02 | *15:10 | *49:01 | *03:04 | *07:01 | NGS | |
| 771 | *29 | *30 | *15 | *49 | *03 | *07 | *29:02 | *30:02 | *15:10 | *49:01 | *03:04 | *07:01 | SSO NGS | |
| 774 | *29 | *30 | *15 | *49 | *03 | *07 | | | *15:10 | | | | SSP SSO | B*15:312 B*15:313 |
| 3186 | *29 | *30 | *15 | *49 | *03 | *07 | | | | | | | | |
| 3545 | *29 | *30 | *15 | *49 | *03 | *07 | *29:02 | *30:02 | *15:10 | *49:01 | *03:04 | *07:01 | SSO SBT | |
| 3808 | *29 | *30 | *15 | *49 | *03 | *07 | | | *15:10 | | | | SSO | |
| 4079 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | SSP NGS | |
| 4251 | | | | | | | *29:02 | *30:02 | *15:10 | *49:01 | *03:04 | *07:01 | NGS | |
| 5133 | | | | | | | *29:02:01:01 | *30:02:01:02 | *15:10:01:01 | *49:01:01:01 | *03:04:02 | *07:01:01:16 | NGS | |
| 5214 | *29 | *30 | *15 | *49 | *03 | *07 | | | | | | | | |
| 5462 | *29 | *30 | *15 | *49 | *03 | *07 | *29:02 | *30:02 | *15:10 | *49:01 | *03:04 | *07:01 | SSO NGS | |
| 6649 | *29 | *30 | *15 | *49 | | | | | | | | | SSO | |
| 8001 | *29 | *30 | *15 | *49 | *03 | *07 | | | *15:10 | | *03:04 | | SSP SSO | |
| 8103 | *29 | *30 | *15 | *49 | *03 | *07 | | | | | | | SSO | |
| 8119 | | | | | | | *29:02 | *30:02 | *15:10 | *49:01 | *03:04 | *07:01 | SSP SBT NGS RT-PCR | |

Table 17a: Individual laboratory results for Cell #1675 - Class II

| Low resolution | | | | | | | | | | | | | | |
|----------------|------|-----|----------|------|------|-----|------|-----|------|-----|------|------------|-----------------------|---------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 747 | NT | | | | | | | | | | | | SSP SSO NGS | |
| 771 | *03 | *15 | | | *01 | *05 | *02 | *06 | *01 | *02 | | | SSO NGS | |
| 3186 | *03 | *15 | 3*02 | 5*01 | *01 | *05 | *02 | *06 | *01 | *02 | *01 | *02(DP201) | | |
| 3545 | *03 | *15 | | | | | | | | | | | SSO SBT | |
| 3808 | *03 | *15 | NT | NT | *01 | *05 | *02 | *06 | *01 | *02 | *01 | *02(DP201) | SSO | |
| 4079 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | SSP NGS | |
| 5214 | *03 | *15 | 3*02 | 5*01 | *01 | *05 | *02 | *06 | *01 | *02 | *01 | *02(DP201) | | |
| 5462 | *03 | *15 | 3*02 | 5*01 | *01 | *05 | *02 | *06 | *01 | *02 | NT | NT | SSO NGS | |
| 6649 | | | | | | | | | | | | | SSO | |
| 8001 | *03 | *15 | 3*02 | 5*01 | *01 | *05 | *02 | *06 | | | | | SSP SSO | |
| 8103 | *03 | *15 | 3*02 | 5*01 | *01 | *05 | *02 | *06 | *01 | *02 | *01 | *02 | SSO | |
| 8119 | NT | | | | | | | | | | | | SSP SBT NGS RT-PCR | |

Table 17b: Individual laboratory results for Cell #1675 - Class II

| High resolution | | | | | | | | | | | | | | |
|-----------------|-----------|-----------|---------------|---------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|-----------|-----------------------|----------------------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 745 | *03:01:01 | *15:03:01 | | | | | *02:01 | *06:02:01 | | | *01:01:01 | *02:01:19 | SSP SBT NGS | DQB1*02:163N |
| 747 | NT | | | | | | | | | | | | SSP SSO NGS | |
| 771 | *03:01 | *15:03 | | | | | *02:01 | *06:02 | | | *01:01 | *02:01 | SSO NGS | |
| 3545 | *03:01 | *15:03 | | | | | | | | | | | SSO SBT | |
| 3808 | | *15:03 | | | | | | | | | | | SSO | |
| 4079 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | SSP NGS | |
| 5133 | *03:01:01 | *15:03:01 | 3*02:02:01:01 | 5*01:01:01:01 | *01:02:01 | *05:01:01:01 | *02:01:01 | *06:02:01:01 | *01:03:03 | *02:02:02:04 | *01:01:01 | *02:01:02 | NGS | DPB1*162:01 DPB1*461:01 |
| 5462 | *03:01P | *15:03 | 3*02:02 | 5*01:01 | *01:02 | *05:01 | *02:01 | *06:02 | *01:03 | *02:02 | *01:01 | *02:01 | SSO NGS | DRB1*03:147 |
| 8001 | *03:01 | *15:03 | 3*02:02 | 5*01:01 | | | *02:01 | *06:02 | | | *01:01 | *02:01 | SSP SSO | |
| 8119 | *03:01P | *15:03 | 3*02:02 | 5*01:01 | *01:02 | *05:01 | *02:01 | *06:02 | | | *01:01 | *02:01 | SSP SBT NGS RT-PCR | DRB1*03:147 |

Table 18. Individual laboratory results for Cell #1676 - Class I

| Center | Low Resolution | | | | | | High Resolution | | | | | | Method | Other Alleles |
|--------|----------------|-----|-------|-----|-------|-----|-----------------|--------|--------|--------------|--------------|--------------|-----------------------|---------------|
| | HLA-A | | HLA-B | | HLA-C | | HLA-A | | HLA-B | | HLA-C | | | |
| 278 | *11 | *34 | *15 | *35 | *07 | *08 | *11:01 | *34:05 | *15:35 | *35:01 | *07:02 | *08:01 | SSP SSO | |
| 725 | *11 | *34 | *15 | *35 | *07 | *08 | | | | | | | SSO | |
| 745 | | | | | | | *11:01:01:01 | *34:05 | *15:35 | *35:01:01 | *07:02:01 | *08:01:01:01 | SSP SBT NGS | |
| 747 | NT | | | | | | | | | | | | SSP SSO NGS | |
| 762 | | | | | | | *11:01 | *34:05 | *15:35 | *35:01 | *07:02 | *08:01 | NGS | |
| 771 | *11 | *34 | *15 | *35 | *07 | *08 | *11:01 | *34:05 | *15:35 | *35:01 | *07:02 | *08:01 | SSO NGS | |
| 774 | *11 | *34 | *15 | *35 | *07 | *08 | | | *15:35 | | | | SSP SSO | |
| 3186 | *11 | *34 | *15 | *35 | *07 | *08 | | | | | | | | |
| 3545 | *11 | *34 | *15 | *35 | *07 | *08 | *11:01 | *34:05 | *15:35 | *35:01 | *07:02 | *08:01 | SSO SBT | |
| 3808 | *11 | *34 | *15 | *35 | *07 | *08 | | | *15:35 | | | | SSO | |
| 4079 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | SSP NGS | |
| 4251 | | | | | | | *11:01 | *34:05 | *15:35 | *35:01 | *07:02 | *08:01 | NGS | |
| 5133 | | | | | | | *11:01:01:01 | *34:05 | *15:35 | *35:01:01:02 | *07:02:01:01 | *08:01:01:01 | NGS | |
| 5214 | *11 | *34 | *15 | *35 | *07 | *08 | | | | | | | | |
| 5462 | *11 | *34 | *15 | *35 | *07 | *08 | *11:01 | *34:05 | *15:35 | *35:01 | *07:02 | *08:01 | SSO NGS | |
| 6649 | *11 | *34 | *15 | *35 | | | | | | | | | SSO | |
| 8001 | *11 | *34 | *15 | *35 | *07 | *08 | | | *15:35 | | | | SSP SSO | |
| 8103 | *11 | *34 | *15 | *35 | *07 | *08 | | | | | | | SSO | |
| 8119 | | | | | | | *11:01 | *34:05 | *15:35 | *35:01 | *07:02 | *08:01 | SSP SBT NGS RT-PCR | |

Table 19a: Individual laboratory results for Cell #1676 - Class II

| Low resolution | | | | | | | | | | | | | | |
|----------------|------|-----|----------|------|------|-----|------|-----|------|-----|------|-----|-----------------------|---------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 747 | NT | | | | | | | | | | | | SSP SSO NGS | |
| 771 | *08 | *15 | | | *01 | | *05 | *06 | | | *01 | *05 | SSO NGS | |
| 3186 | *08 | *15 | 5*01 | | *01 | *01 | *05 | *06 | *02 | *02 | *01 | *05 | | |
| 3545 | *08 | *15 | | | | | | | | | | | SSO SBT | |
| 3808 | *08 | *15 | NT | NT | *01 | *01 | *05 | *06 | *02 | *02 | *01 | *05 | SSO | |
| 4079 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | SSP NGS | |
| 5214 | *08 | *15 | 5*01 | | *01 | *01 | *05 | *06 | *02 | | *01 | *05 | | |
| 5462 | *08 | *15 | 5*01 | NP | *01 | *01 | *05 | *06 | *02 | | NT | NT | SSO NGS | |
| 8001 | *08 | *15 | 5*01 | | *01 | *01 | *05 | *06 | | | | | SSP SSO | |
| 8103 | *08 | *15 | 5*01 | 5*01 | *01 | *01 | *05 | *06 | *02 | *02 | *01 | *05 | SSO | |
| 8119 | NT | | | | | | | | | | | | SSP SBT NGS RT-PCR | |

Table 19b: Individual laboratory results for Cell #1676 - Class II

| High resolution | | | | | | | | | | | | | | |
|-----------------|-----------|------------|---------------|----|-----------|-----------|-----------|--------------|-----------|----|-----------|-----------|-----------------------|----------------------------|
| Center | DRB1 | | DRB3/4/5 | | DQA1 | | DQB1 | | DPA1 | | DPB1 | | METHOD | Other Alleles |
| 745 | *08:03:02 | *15:02:01 | | | | | *05:02:01 | *06:01 | | | *01:01:01 | *05:01:01 | SSP SBT NGS | |
| 747 | NT | | | | | | | | | | | | SSP SSO NGS | |
| 771 | *08:03 | *15:02 | | | | | *05:02 | *06:01 | | | *01:01 | *05:01 | SSO NGS | |
| 3545 | *08:03 | *15:02 | | | | | | | | | | | SSO SBT | |
| 3808 | *08:03 | *15:02:01G | | | | | | | | | | | SSO | |
| 4079 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | SSP NGS | |
| 5133 | *08:03:02 | *15:02:01 | 5*01:01:01:01 | | *01:02:01 | *01:03:01 | *05:02:01 | *06:01:01:01 | *02:02:02 | | *01:01:01 | *05:01:01 | NGS | |
| 5462 | *08:03 | *15:02P | 5*01:01 | NP | *01:02 | *01:03 | *05:02 | *06:01 | *02:02 | | *01:01 | *05:01 | SSO NGS | DRB1*15:140 DRB1*15:149 |
| 8001 | *08:03 | *15:02 | 5*01:01 | | | | *05:02 | *06:01 | | | *01:01 | *05:01 | SSP SSO | |
| 8119 | *08:03 | *15:02P | 5*01:01 | | *01:02 | *01:03 | *05:02 | *06:01 | | | *01:01 | *05:01 | SSP SBT NGS RT-PCR | DRB1*15:140 DRB1*15:149 |

Table 20. Individual laboratory results for Cell #1673-1676 by serology

| Investigator | Cell No 1673 (Hispanic) | | | | | | | | | | Cell No 1674 (Hispanic) | | | | | | Cell No 1675 (Black) | | | | | | Cell No 1676 (Filipino) | | | | | | | | | | | | | | | |
|---------------|-------------------------|--------|-----|-----|-----|-----|-----|-----|--------|--------|-------------------------|-----|-----|-----|-----|-----|----------------------|-----|--------|--------|-----|-----|-------------------------|-----|-----|-----|-----|-----|--------|--------|-----|-----|-----|-----|-----|-----|-----|--------|
| | Days Old | Viab % | A24 | A33 | B14 | B45 | Cw8 | Bw6 | OTHERS | Viab % | A2 | A68 | B61 | B51 | Cw3 | Cw8 | Bw4 | Bw6 | OTHERS | Viab % | A29 | A30 | B71 | B49 | Cw3 | Cw7 | Bw4 | Bw6 | OTHERS | Viab % | A11 | A34 | B62 | B35 | Cw7 | Cw8 | Bw6 | OTHERS |
| Cecka, J. Mic | 2 | >95 | + | + | B65 | + | | + | | >95 | + | + | + | + | | | + | + | | >95 | + | + | + | + | | | + | + | | >95 | + | + | + | + | | | + | |
| Fort, Marylis | 3 | 95 | + | + | + | + | | + | | 95 | + | + | + | + | | | | | | NT | | | | | | | | | NT | | | | | | | | | |
| Gillis, David | | 60 | + | + | B65 | + | | + | | 60 | + | + | + | + | | | + | + | | 60 | + | + | B70 | + | | | + | + | 60 | + | + | + | + | | | | + | |
| Meyer, Pieter | | 70 | + | + | + | B12 | + | | | 70 | + | A28 | B53 | B35 | + | + | | | | 0 | | | | | | | | 70 | + | A10 | + | + | | | | | | |
| Permpikul, Ve | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shai, Isaac | 15 | 55 | + | + | + | + | + | + | Cw5 | 52 | + | A28 | B53 | B5 | + | + | + | + | B46 | 30 | | | | | | | | 30 | | | | | | | | | | |
| Villard, Jean | 6 | 70 | + | + | + | B12 | | + | | 70 | + | A28 | B40 | + | | | + | + | | | | | | | | | | | | | | | | | | | | |
| Walsh, Lisa | 3 | 90 | + | + | B65 | + | | + | | 99 | + | + | B40 | + | | | + | + | | 95 | + | + | B70 | + | | | + | + | 99 | + | + | + | + | | | | + | |

SERUM EXCHANGE #577

The results for Serum Exchange #577 are summarized in Tables 21 - 28 and individual listing of results are shown in tables 29 - 40. Strong reactivity

to A1, B73, Cw7, B12 (B44, B45), and B8, as well as reactivity to a number of DR, DQ, and DP specificities, was examined in this study.

| 1301 | method | #labs | A1 | B18 | A33 | A25 | A26 | A34 | A66 | A6601 | A43 | A80 | A23 | A24 | A11 | A1101 | A1102 | A36 | B73 | B64 | B65 | B76 | B78 | B7801 | B51 | B37 |
|---------|---------|-------|---------------------------|------|-----|------|------|------|-----|-------|------|------|-----|-----|-----|-------|-------|------|------|-----|-----|-----|-----|-------|-----|-----|
| class I | NIH-Std | 1 | NEG | | | | | | | | | | | | | | | | | | | | | | | |
| | AHG | 2 | 50% | 50% | 50% | | | | | | | | 50% | | | | | | | | | | | | | |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | | | | |
| | C1q | 2 | NT | | | | | | | | | | | | | | | | | | | | | | | |
| | PRA | 3 | 67% | 33% | 33% | 67% | 67% | 67% | 67% | | 33% | 67% | 67% | 67% | 67% | | | 67% | 33% | 33% | 33% | 33% | 33% | | 33% | 33% |
| | SAB | 24 | 100% | 100% | 88% | 100% | 100% | 100% | 83% | 38% | 100% | 100% | 83% | 96% | 96% | 21% | 21% | 100% | 100% | 92% | 88% | 88% | 67% | 12% | 67% | 58% |

| 1301 | method | #labs | Cw6 | Cw7 | Cw18 | Cw4 | B8 | A68 | B14 | B39 | B54 | A1C | A6602 | A69 | B15 | A29 | A10C | A10 | A19 | A2C | A9 | B5C | B67 | B8C | Bw4 | Bw6 | Cw1 |
|---------|---------|-------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|------|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|
| class I | NIH-Std | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AHG | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Flow | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C1q | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRA | 3 | 33% | 33% | 33% | 33% | | | | | | | | | | | | | | | | | | | | | |
| | SAB | 24 | 75% | 71% | 58% | 50% | 38% | 25% | 12% | 12% | 12% | 8% | 8% | 8% | 8% | 8% | 8% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% |

| 1301 | method | #labs | DQ2 | DQ4 | DQ7 | DQ8 | DQ9 | DR7 | DPw1 | DPw3 | DPw5 | DPw6 | DP11 | DP13 | DP19 | DP18 | DQ6 | DQ5 | DP14 | DP15 |
|----------|--------|-------|---------------------------|------|------|------|------|-----|------|------|------|------|------|------|------|------|-----|-----|------|------|
| class II | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | |
| | C1q | 1 | no consensus | | | | | | | | | | | | | | | | | |
| | PRA | 3 | 67% | 67% | 67% | 67% | 67% | 67% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | |
| | SAB | 22 | 100% | 100% | 100% | 100% | 100% | 95% | 100% | 100% | 100% | 100% | 91% | 91% | 91% | 86% | 59% | 55% | 91% | 91% |

| 1301 | method | #labs | DP17 | DP9 | DP10 | DP20 | DP28 | DPA1*02 | DPA1*04 | DQA1*04 | DQA1*05 | DQA1*06 | DQA1*03 | DQA1*02 | DPA1*01 | DPA1*03 | DPw4 | DQ3 | DR9 | DQA1*01 |
|------|--------|-------|------|-----|------|------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----|---------|
| | SAB | 22 | 91% | 91% | 64% | 64% | 64% | 59% | 59% | 36% | 36% | 36% | 32% | 27% | 13% | 13% | 9% | 9% | 9% | 5% |

Serum 1301. Anti-A1 (9896), -B18 (4351), -A33 (1873), and -A23 (2438) reactivity was detected in this cell by antiglobulin, PRA and SAB labs. Additional reactivity to B64 (2892), B65 (2233), B73 (4284), B76 (2566), as well as reactivity to a number of 1C and 10C specificities was reported by PRA and SAB by > 80% agreement. Allele specific reactivity to A*24:02 and B*51:01 was also reported by some labs.

Strong DQ and DP reactivity was detected in this sample by PRA and SAB, including reactivity to DQ2 (13534), DQ7 (11931), DP1 (12711), DP3 (12522), DP5 (11588), DP6 (11118), DP9 (13216), DP11 (11275), DP13 (10962), DP14 (12434), and DP17 (11916). Each were reported by > 90% of SAB labs. Allele specific reactivity to DQB1*05:01 and DQB1*06:01 was also reported by several labs.

*(median MFI)

| 1302 | method | #labs | B73 | Cw7 | Cw12 | Cw17 | Cw6 | B37 | B7 | B35 | B62 | B72 | B76 | B18 | B61 | B55 | B56 | B67 | B64 | B65 | B8 | B75 | B71 | B42 |
|---------|---------|-------|---------------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| class I | NIH-Std | 1 | NEG | | | | | | | | | | | | | | | | | | | | | |
| | AHG | 2 | | | | | | 50% | | | | | | | | | | | | | | | | |
| | Flow | 1 | No specificities assigned | | | | | | | | | | | | | | | | | | | | | |
| | C1q | 2 | 100% | 100% | 50% | 100% | 50% | | | | | | | | | | | | | | | | | |
| | PRA | 3 | 33% | 67% | | | | | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% |
| | SAB | 24 | 100% | 100% | 92% | 92% | 58% | | 88% | 83% | 83% | 79% | 79% | 75% | 75% | 71% | 71% | 71% | 79% | 71% | 71% | 71% | 67% | 67% |

| 1302 | method | #labs | B54 | A80 | A3 | A36 | B39 | B3901 | A1 | A11 | A1101 | A1102 | B46 | B82 | A25 | A26 | A34 | A33 | A43 | B41 | B60 | B27 | B2708 | A66 | A6601 |
|------|--------|-------|-----|-----|-----|-----|-----|-------|-----|-----|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|
| | PRA | 3 | 33% | 67% | 33% | 67% | 33% | | 33% | 67% | | | 33% | | 67% | 67% | 67% | 33% | 33% | 33% | 33% | 33% | | 33% | |
| | SAB | 24 | 67% | 71% | 67% | 62% | 62% | 17% | 62% | 62% | 12% | 8% | 62% | 83% | 58% | 54% | 54% | | 54% | 54% | 54% | 38% | 50% | 38% | 29% |

| 1302 | method | #labs | Cw8 | Cw18 | Cw16 | B81 | B50 | B48 | Bw6 | Cw10 | Cw4 | B45 | B14 | B15 | B40 | B8101 | B8201 | A1C | B12C | B5C | B70 | B703 | B78 | B7C | B8C |
|------|--------|-------|-----|------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-------|-------|-----|------|-----|-----|------|-----|-----|-----|
| | SAB | 24 | 62% | 58% | 50% | 46% | 38% | 25% | 21% | 21% | 21% | 17% | 8% | 8% | 8% | 8% | 8% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% |

| 1302 | method | #labs | NEG |
|----------|--------|-------|--------------|
| class II | Flow | 1 | no consensus |
| | C1q | 1 | NT |
| | PRA | 3 | 100% |
| | SAB | 15 | 93% |

Serum 1302. Strong anti-B73 (18962) and –Cw7 (21015) reactivity was detected in this sample by C1q, PRA, and SAB. Each were reported by 100% of SAB labs. Additional reactivity to 5C, 7C, 8C, and C-locus specificities was

also reported by various methods. Flow, PRA, and SAB labs reported this sample as negative for class II.

| 1303 | method | #labs | B44 | B45 | B13 | B41 | B47 | B49 | B50 | B60 | B61 | B40 | B62 | B76 | B46 | B72 | B71 | B82 | B8201 | B35 | B73 | B75 | |
|----------|---------|-------|---------------------------|-------|------|-------|------|-------|------|------|------|-----|------|------|-------|------|------|------|-------|-----|-----|-----|-----|
| class I | NIH-Std | 1 | no consensus | | | | | | | | | | | | | | | | | | | | |
| | AHG | 2 | 100% | 100% | 50% | 50% | 50% | 100% | 50% | 100% | 50% | 50% | 50% | | | | | | | | | | |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | |
| | C1q | 2 | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | | 50% | | | | | | | | | | |
| | PRA | 3 | 67% | 67% | 67% | 67% | 67% | 67% | 67% | 67% | 67% | | 67% | 33% | 67% | 67% | 33% | 67% | | 33% | 67% | 67% | |
| | SAB | 24 | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 8% | 100% | 100% | 100% | 100% | 100% | 100% | 4% | 96% | 92% | 88% | |
| 1303 | method | #labs | B39 | B3901 | Cw1 | Cw9 | Cw10 | Cw16 | Cw8 | Cw12 | Cw14 | Cw7 | A1 | B78 | B7801 | B64 | B48 | B18 | A23 | A34 | A24 | B81 | |
| | PRA | 3 | 33% | | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | 33% | | 33% | 33% | 33% | 33% | 33% | | 33% | |
| | SAB | 24 | 88% | 33% | 88% | 88% | 88% | 88% | 79% | 79% | 75% | 58% | 75% | 71% | 17% | 71% | 62% | 62% | 62% | 50% | 42% | | |
| 1303 | method | #labs | B65 | B12C | A66 | A6601 | B27 | B2705 | B15 | B5C | Bw6 | Cw3 | A1C | A9 | B12 | B14 | B21 | B37 | B70 | B7C | B8 | B8C | Bw4 |
| | SAB | 24 | 25% | 12% | 12% | 8% | 12% | 8% | 8% | 8% | 8% | 8% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% |
| 1303 | method | #labs | DR7 | DR9 | DR10 | DQ5 | | | | | | | | | | | | | | | | | |
| class II | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | |
| | C1q | 1 | NT | | | | | | | | | | | | | | | | | | | | |
| | PRA | 3 | 67% | 67% | | | | | | | | | | | | | | | | | | | |
| | SAB | 22 | 100% | 100% | 9% | 9% | | | | | | | | | | | | | | | | | |

Serum 1303. Strong anti-B44 (20919) and –B45 (20418) reactivity was detected in this sample by all methods, except Flow. Additional reactivity to B13 (20152), B41 (21852), a well as reactivity to a number of 5C and 7C specificities was reported by various methods. Reactivity to a number of C-locus specificities, including Cw1 (5291), Cw9 (4258), Cw10 (4508), and Cw16

(4851), was also reported by PRA and SAB. In addition, allele specific reactivity to A*34:01 and A*24:02 was also reported by several labs.

Weak class II reactivity was detected in this sample, with PRA and SAB reporting anti-DR7 (2335) and –DR9 (2770) reactivity. Each were reported by 100% of SAB labs.

| 1304 | method | #labs | B8 | B64 | B65 | B42 | B18 | B59 | B54 | B55 | A3 | A29 | A33 | A34 | A68 | A69 | A36 | B37 | B38 | B41 | B67 | Cw1 | Cw12 | Cw14 | A30 | A32 | A74 | A31 |
|---------|---------|-------|---------------------------|-------|-----|------|------|-------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|-----|-----|-----|-------|
| class I | NIH-Std | 1 | no consensus | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AHG | 2 | 100% | 50% | 50% | 50% | | | | | | | | | | | | | | | | | | | | | | |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C1q | 2 | 100% | 100% | 50% | 100% | 50% | 100% | 100% | | | | | | | | | | | | | | | | | | | |
| | PRA | 3 | 67% | 33% | 33% | 67% | 67% | 33% | 33% | 33% | 67% | 67% | 67% | 67% | 67% | 33% | 33% | 67% | 33% | 33% | 67% | 33% | 33% | 33% | 67% | 67% | 33% | 33% |
| | SAB | 24 | 96% | 96% | 96% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 96% | 96% | 96% | 96% | 96% | 92% |
| 1304 | method | #labs | B39 | B3901 | A23 | B61 | A66 | A6602 | B46 | B7 | B51 | B48 | A2 | Cw8 | Cw16 | Cw4 | Cw403 | Cw15 | Cw18 | Cw7 | Cw5 | Cw6 | Cw2 | B2708 | B27 | B47 | B81 | B8101 |
| | PRA | 3 | 33% | | 33% | 33% | 33% | | 33% | 33% | 33% | 33% | 33% | | | | | | | | | | | | | | | |
| | SAB | 24 | 83% | 38% | 62% | 62% | 58% | 50% | 54% | 50% | 42% | 33% | 33% | 100% | 96% | 96% | 17% | 96% | 92% | 92% | 92% | 92% | 62% | 25% | 21% | 25% | 25% | 4% |
| 1304 | method | #labs | A1101 | A11 | B72 | B8C | A24 | A2403 | B14 | A10C | B73 | B78 | A10 | A19 | A1C | A203 | A28 | A2C | B12C | B16 | B22 | B5C | B75 | B7C | Bw4 | Bw6 | | |
| | SAB | 24 | 17% | 12% | 17% | 17% | 12% | 12% | 12% | 8% | 8% | 8% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | 4% | |

| 1304 | method | #labs | DR52 | DR17 | DR18 | DR13 | DR14 | DR8 | DR11 | DR1404 | DR3 | DQA1*05 | DR1403 | DP15 | DQ2 |
|----------|--------|-------|---------------------------|------|------|------|------|-----|------|--------|-----|---------|--------|------|-----|
| class II | Flow | 1 | no specificities assigned | | | | | | | | | | | | |
| | C1q | 1 | NT | | | | | | | | | | | | |
| | PRA | 4 | 33% | 67% | 67% | 67% | 67% | 67% | | | | | | | |
| | SAB | 20 | 100% | 95% | 95% | 75% | 75% | 75% | 2% | 20% | 15% | 10% | 10% | 5% | 5% |

Serum 1304. Strong anti-B8 (23327) reactivity was reported in this sample by all methods, except Flow. In addition, reactivity to B64 (16970), B65 (14046), B42 (16610), B18 (13792), B38 (7934), B39 (13440), as well as reactivity to a number of 1C, 7C, 10C, and C-locus specificities was reported by various methods.

Weak DR reactivity was detected in this sample by PRA and SAB, including anti-DR52 (1636), -DR17(2705), and -DR18 (1849) reactivity which was detected by > 90% of SAB labs. In addition, several labs detected allele specific reactivity to DRB3*01:01 and DRB3*03:01.



NEXT MAILING DATE: February 3, 2021

Happy Holidays!

Arlene Locke, David Gjertson, Qiuheng Zhang, and Elaine F. Reed



Table 21. Summary of the 577th Serum Exchange (Serum #1301-1304) by NIH-Standard - class I

| Method: NIH-Standard | | | | | | | | | | | |
|--------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|
| *** Serum 1301*** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 1 typing Lab | | | 1 typing Lab | | | 1 typing Lab | | | 1 typing Lab | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| NEG | | | NEG | | | no consensus | | | no consensus | | |

Method = NIH-Std

Table 22. Summary of the 577th Serum Exchange (Serum #1301-1304) by Antiglobulin and Flow Cytometry - class I

| Method: Antiglobulin | | | | | | | | | | | |
|----------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1301 *** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 2 typing Labs | | | 2 typing Labs | | | 2 typing Labs | | | 2 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| A1 | 50% | 100% | B37 | 50% | 100% | B44 | 100% | 100% | B8 | 100% | 100% |
| A33 | 50% | 75% | B41 | 50% | 100% | B45 | 100% | 100% | B64 | 50% | 100% |
| A23 | 50% | 67% | B42 | 50% | 100% | B49 | 100% | 100% | B65 | 50% | 80% |
| B18 | 50% | 56% | B7 | 50% | 100% | B60 | 100% | 100% | B42 | 50% | 50% |
| | | | B8 | 50% | 100% | B13 | 50% | 100% | | | |
| | | | Cw7 | 50% | 100% | B40 | 50% | 100% | | | |
| | | | B39 | 50% | 75% | B41 | 50% | 100% | | | |
| | | | B18 | 50% | 50% | B47 | 50% | 100% | | | |
| | | | B62 | 50% | 40% | B50 | 50% | 100% | | | |
| | | | | | | B61 | 50% | 100% | | | |
| | | | | | | B62 | 50% | 75% | | | |

| Method: Flow Cytometry | | | | | | | | | | | |
|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|
| *** Serum 1301 *** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 1 typing Lab | | | 1 typing Lab | | | 1 typing Lab | | | 1 typing Lab | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| no specificities assigned | | | no specificities assigned | | | no specificities assigned | | | no specificities assigned | | |

Table 23. Summary of the 577th Serum Exchange (Serum #1301-1304) by C1q- class I

| Method: C1q | | | | | | | | | | | |
|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|
| *** Serum 1301 *** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 2 typing Lab | | | 2 typing Labs | | | 2 typing Labs | | | 2 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| NT | | | B73 | 100% | 100% | B13 | 100% | 100% | B42 | 100% | 100% |
| | | | Cw17 | 100% | 100% | B41 | 100% | 100% | B54 | 100% | 100% |
| | | | Cw7 | 100% | 100% | B44 | 100% | 100% | B59 | 100% | 100% |
| | | | Cw12 | 50% | 100% | B45 | 100% | 100% | B64 | 100% | 100% |
| | | | Cw6 | 50% | 100% | B47 | 100% | 100% | B8 | 100% | 100% |
| | | | | | | B49 | 100% | 100% | B18 | 50% | 100% |
| | | | | | | B50 | 100% | 100% | B65 | 50% | 100% |
| | | | | | | B60 | 100% | 100% | | | |
| | | | | | | B61 | 100% | 100% | | | |
| | | | | | | B76 | 50% | 100% | | | |

Table 24. Summary of the 577th Serum Exchange (Serum #1301-1304) by PRA- class I

| Method: Luminex - PRA | | | | | | | | | | | |
|-----------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1301 *** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 3 typing Labs | | | 3 typing Labs | | | 3 typing Labs | | | 3 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| A1 | 67% | 100% | A11 | 67% | 100% | B13 | 67% | 100% | A29 | 67% | 100% |
| A11 | 67% | 100% | A25 | 67% | 100% | B41 | 67% | 100% | A3 | 67% | 100% |
| A23 | 67% | 100% | A26 | 67% | 100% | B44 | 67% | 100% | A30 | 67% | 100% |
| A24 | 67% | 100% | A34 | 67% | 100% | B45 | 67% | 100% | A32 | 67% | 100% |
| A25 | 67% | 100% | A36 | 67% | 100% | B46 | 67% | 100% | A33 | 67% | 100% |
| A26 | 67% | 100% | A80 | 67% | 100% | B47 | 67% | 100% | A34 | 67% | 100% |
| A34 | 67% | 100% | Cw7 | 67% | 100% | B49 | 67% | 100% | A68 | 67% | 100% |
| A36 | 67% | 100% | A1 | 33% | 100% | B50 | 67% | 100% | B18 | 67% | 100% |
| A66 | 67% | 100% | A3 | 33% | 100% | B60 | 67% | 100% | B37 | 67% | 100% |
| A80 | 67% | 100% | A33 | 33% | 100% | B61 | 67% | 100% | B42 | 67% | 100% |
| A33 | 33% | 100% | A43 | 33% | 100% | B62 | 67% | 100% | B67 | 67% | 100% |
| A43 | 33% | 100% | A66 | 33% | 100% | B72 | 67% | 100% | B8 | 67% | 100% |
| B18 | 33% | 100% | B18 | 33% | 100% | B73 | 67% | 100% | A2 | 33% | 100% |
| B37 | 33% | 100% | B27 | 33% | 100% | B75 | 67% | 100% | A23 | 33% | 100% |
| B51 | 33% | 100% | B35 | 33% | 100% | B82 | 67% | 100% | A31 | 33% | 100% |
| B64 | 33% | 100% | B39 | 33% | 100% | A1 | 33% | 100% | A36 | 33% | 100% |
| B65 | 33% | 100% | B41 | 33% | 100% | A23 | 33% | 100% | A66 | 33% | 100% |
| B73 | 33% | 100% | B42 | 33% | 100% | A34 | 33% | 100% | A69 | 33% | 100% |
| B76 | 33% | 100% | B46 | 33% | 100% | B18 | 33% | 100% | A74 | 33% | 100% |
| B78 | 33% | 100% | B54 | 33% | 100% | B35 | 33% | 100% | B38 | 33% | 100% |
| Cw18 | 33% | 100% | B55 | 33% | 100% | B39 | 33% | 100% | B39 | 33% | 100% |
| Cw4 | 33% | 100% | B56 | 33% | 100% | B48 | 33% | 100% | B41 | 33% | 100% |
| Cw6 | 33% | 100% | B60 | 33% | 100% | B64 | 33% | 100% | B46 | 33% | 100% |
| Cw7 | 33% | 100% | B61 | 33% | 100% | B71 | 33% | 100% | B48 | 33% | 100% |
| | | | B62 | 33% | 100% | B76 | 33% | 100% | B51 | 33% | 100% |
| | | | B64 | 33% | 100% | B78 | 33% | 100% | B54 | 33% | 100% |
| | | | B65 | 33% | 100% | B81 | 33% | 100% | B55 | 33% | 100% |
| | | | B67 | 33% | 100% | Cw1 | 33% | 100% | B59 | 33% | 100% |
| | | | B7 | 33% | 100% | Cw10 | 33% | 100% | B61 | 33% | 100% |
| | | | B71 | 33% | 100% | Cw12 | 33% | 100% | B64 | 33% | 100% |
| | | | B72 | 33% | 100% | Cw14 | 33% | 100% | B65 | 33% | 100% |
| | | | B73 | 33% | 100% | Cw16 | 33% | 100% | B7 | 33% | 100% |
| | | | B75 | 33% | 100% | Cw7 | 33% | 100% | Cw1 | 33% | 100% |
| | | | B76 | 33% | 100% | Cw8 | 33% | 100% | Cw12 | 33% | 100% |
| | | | B8 | 33% | 100% | Cw9 | 33% | 100% | Cw14 | 33% | 100% |

Table 25. Summary of the 577th Serum Exchange (Serum #1301-1304) by Single Antigen - class I

| Method: Luminex - SAB | | | | | | | | | | | |
|-----------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1301 *** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 24 typing Labs | | | 24 typing Labs | | | 24 typing Labs | | | 24 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| A1 | 100% | 100% | B73 | 100% | 100% | B13 | 100% | 100% | A29 | 100% | 100% |
| A25 | 100% | 100% | Cw7 | 100% | 95% | B41 | 100% | 100% | A33 | 100% | 100% |
| A43 | 100% | 100% | Cw12 | 92% | 67% | B44 | 100% | 100% | A34 | 100% | 100% |
| A80 | 100% | 100% | Cw17 | 92% | 60% | B45 | 100% | 100% | A68 | 100% | 100% |
| B18 | 100% | 100% | B7 | 88% | 100% | B46 | 100% | 100% | A69 | 100% | 100% |
| A34 | 100% | 83% | B35 | 83% | 100% | B47 | 100% | 100% | B18 | 100% | 100% |
| A26 | 100% | 80% | B62 | 83% | 100% | B49 | 100% | 100% | B37 | 100% | 100% |
| A36 | 100% | 75% | B82 | 83% | 50% | B50 | 100% | 100% | B38 | 100% | 100% |
| B73 | 100% | 50% | B64 | 79% | 50% | B60 | 100% | 100% | B41 | 100% | 100% |
| A11 | 96% | 77% | B72 | 79% | 50% | B61 | 100% | 100% | B42 | 100% | 100% |
| A24 | 96% | 50% | B76 | 79% | 50% | B62 | 100% | 100% | B54 | 100% | 100% |
| B64 | 92% | 75% | B18 | 75% | 80% | B71 | 100% | 100% | B55 | 100% | 100% |
| A33 | 88% | 100% | B61 | 75% | 50% | B72 | 100% | 100% | B59 | 100% | 100% |
| B65 | 88% | 100% | B55 | 71% | 100% | B76 | 100% | 100% | B67 | 100% | 100% |
| B76 | 88% | 100% | B56 | 71% | 100% | B82 | 100% | 100% | Cw1 | 100% | 89% |
| A23 | 83% | 100% | B67 | 71% | 100% | B35 | 96% | 60% | A3 | 100% | 86% |
| A66 | 83% | 50% | B8 | 71% | 100% | B73 | 92% | 100% | Cw8 | 100% | 86% |
| Cw6 | 75% | 100% | B75 | 71% | 80% | B75 | 88% | 100% | A36 | 100% | 75% |
| Cw7 | 71% | 100% | B65 | 71% | 75% | Cw9 | 88% | 100% | A30 | 96% | 100% |
| B78 | 67% | 100% | A80 | 71% | 67% | Cw10 | 88% | 92% | A32 | 96% | 100% |
| B51 | 67% | 60% | B71 | 67% | 100% | B39 | 88% | 67% | A74 | 96% | 100% |
| Cw18 | 58% | 100% | A3 | 67% | 86% | Cw16 | 88% | 57% | B64 | 96% | 100% |
| B37 | 58% | 33% | B42 | 67% | 75% | Cw1 | 88% | 44% | B65 | 96% | 100% |
| Cw4 | 50% | 100% | B54 | 67% | 67% | Cw8 | 79% | 71% | B8 | 96% | 100% |
| A6601 | 38% | 100% | A36 | 62% | 100% | Cw12 | 79% | 67% | Cw12 | 96% | 100% |
| B8 | 38% | 100% | B39 | 62% | 100% | Cw14 | 75% | 100% | Cw16 | 96% | 100% |
| A68 | 25% | 100% | Cw8 | 62% | 57% | A1 | 75% | 90% | Cw4 | 96% | 88% |
| A1101 | 21% | 100% | A1 | 62% | 56% | B78 | 71% | 67% | Cw14 | 96% | 80% |
| A1102 | 21% | 100% | A11 | 62% | 50% | B64 | 71% | 50% | Cw15 | 96% | 80% |
| B14 | 12% | 100% | B46 | 62% | 33% | A23 | 62% | 100% | A31 | 92% | 100% |
| B39 | 12% | 100% | A25 | 58% | 100% | B48 | 62% | 67% | Cw18 | 92% | 100% |
| B54 | 12% | 100% | Cw18 | 58% | 100% | B18 | 62% | 60% | Cw7 | 92% | 82% |
| B7801 | 12% | 100% | Cw6 | 58% | 100% | Cw7 | 58% | 100% | Cw5 | 92% | 67% |
| A10C | 8% | 100% | A26 | 54% | 100% | A34 | 50% | 50% | Cw6 | 92% | 57% |
| A1C | 8% | 100% | A34 | 54% | 100% | A24 | 42% | 50% | B39 | 83% | 100% |

Table 25. Summary of the 577th Serum Exchange (Serum #1301-1304) by Single Antigen - class I

| Method: Luminex - SAB, cont. | | | | | | | | | | | |
|-------------------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|
| *** Serum 1301 *** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 24 typing Labs | | | 24 typing Labs | | | 24 typing Labs | | | 24 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| A6602 | 8% | 100% | A43 | 54% | 100% | B3901 | 33% | 100% | A23 | 62% | 100% |
| A69 | 8% | 100% | B41 | 54% | 50% | B65 | 25% | 100% | B61 | 62% | 100% |
| B15 | 8% | 100% | B60 | 54% | 25% | B7801 | 17% | 100% | Cw2 | 62% | 100% |
| A29 | 8% | 50% | B2708 | 50% | 100% | B12C | 12% | 100% | A66 | 58% | 50% |
| A10 | 4% | 100% | Cw16 | 50% | 100% | A66 | 12% | 50% | B46 | 54% | 33% |
| A19 | 4% | 100% | B81 | 46% | 100% | B27 | 12% | 50% | A6602 | 50% | 100% |
| A2C | 4% | 100% | A66 | 38% | 100% | A6601 | 8% | 100% | B7 | 50% | 100% |
| A9 | 4% | 100% | B50 | 38% | 100% | B15 | 8% | 100% | B51 | 42% | 50% |
| B5C | 4% | 100% | B27 | 38% | 50% | B2705 | 8% | 100% | B3901 | 38% | 100% |
| B67 | 4% | 100% | A6601 | 29% | 100% | B40 | 8% | 100% | B48 | 33% | 100% |
| B8C | 4% | 100% | B48 | 25% | 100% | B5C | 8% | 100% | A2 | 33% | 33% |
| Bw4 | 4% | 100% | Bw6 | 21% | 100% | Bw6 | 8% | 100% | B2708 | 25% | 100% |
| Bw6 | 4% | 100% | Cw10 | 21% | 100% | Cw3 | 8% | 100% | B47 | 25% | 100% |
| Cw1 | 4% | 100% | Cw4 | 21% | 100% | A1C | 4% | 100% | B81 | 25% | 100% |
| | | | B3901 | 17% | 100% | A9 | 4% | 100% | B27 | 21% | 50% |
| | | | B45 | 17% | 100% | B12 | 4% | 100% | A1101 | 17% | 100% |
| | | | A1101 | 12% | 100% | B14 | 4% | 100% | B72 | 17% | 100% |
| | | | A1102 | 8% | 100% | B21 | 4% | 100% | B8C | 17% | 100% |
| | | | B14 | 8% | 100% | B37 | 4% | 100% | Cw403 | 17% | 100% |
| | | | B15 | 8% | 100% | B70 | 4% | 100% | A24 | 12% | 100% |
| | | | B40 | 8% | 100% | B7C | 4% | 100% | A2403 | 12% | 100% |
| | | | B8101 | 8% | 100% | B8 | 4% | 100% | B14 | 12% | 100% |
| | | | B8201 | 8% | 100% | B8201 | 4% | 100% | A11 | 12% | 50% |
| | | | A1C | 4% | 100% | B8C | 4% | 100% | A10C | 8% | 100% |
| | | | B12C | 4% | 100% | Bw4 | 4% | 100% | B73 | 8% | 100% |
| | | | B5C | 4% | 100% | | | | B78 | 8% | 100% |
| | | | B70 | 4% | 100% | | | | A10 | 4% | 100% |
| | | | B703 | 4% | 100% | | | | A19 | 4% | 100% |
| | | | B78 | 4% | 100% | | | | A1C | 4% | 100% |
| | | | B7C | 4% | 100% | | | | A203 | 4% | 100% |
| | | | B8C | 4% | 100% | | | | A28 | 4% | 100% |
| | | | | | | | | | A2C | 4% | 100% |
| | | | | | | | | | B12C | 4% | 100% |
| | | | | | | | | | B16 | 4% | 100% |
| | | | | | | | | | B22 | 4% | 100% |

Table 26. Summary of the 577th Serum Exchange (Serum #1301-1304) by Flow Cytometry and C1q - class II

| Method: Flow Cytometry | | | | | | | | | | | | | | | |
|---------------------------|-----------|-----------|--|---------------------------|-----------|-----------|--|---------------------------|-----------|-----------|--|---------------------------|-----------|-----------|--|
| *** Serum 1301 *** | | | | *** Serum 1302 *** | | | | *** Serum 1303 *** | | | | *** Serum 1304 *** | | | |
| 1 typing Lab | | | | 1 typing Lab | | | | 1 typing Lab | | | | 1 typing Lab | | | |
| Antigen | Consensus | Inclusion | | Antigen | Consensus | Inclusion | | Antigen | Consensus | Inclusion | | Antigen | Consensus | Inclusion | |
| no specificities assigned | | | | no specificities assigned | | | | no specificities assigned | | | | no specificities assigned | | | |
| Method: C1q | | | | | | | | | | | | | | | |
| *** Serum 1301 *** | | | | *** Serum 1302 *** | | | | *** Serum 1303 *** | | | | *** Serum 1304 *** | | | |
| 1 typing Lab | | | | 1 typing Lab | | | | 1 typing Lab | | | | 1 typing Lab | | | |
| Antigen | Consensus | Inclusion | | Antigen | Consensus | Inclusion | | Antigen | Consensus | Inclusion | | Antigen | Consensus | Inclusion | |
| no consensus | | | | NT | | | | NT | | | | NT | | | |

Table 27. Summary of the 577th Serum Exchange (Serum #1301-1304) by PRA - class II

| Method: Luminex-PRA | | | | | | | | | | | |
|---------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1301 *** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 3 typing Labs | | | 3 typing Labs | | | 3 typing Labs | | | 3 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| DQ2 | 67% | 100% | NEG | 100% | - | DR7 | 67% | 100% | DR13 | 67% | 100% |
| DQ4 | 67% | 100% | | | | DR9 | 67% | 100% | DR14 | 67% | 100% |
| DQ7 | 67% | 100% | | | | | | | DR17 | 67% | 100% |
| DQ8 | 67% | 100% | | | | | | | DR18 | 67% | 100% |
| DQ9 | 67% | 100% | | | | | | | DR8 | 67% | 100% |
| DR7 | 67% | 100% | | | | | | | DR52 | 33% | 100% |
| DP11 | 33% | 100% | | | | | | | | | |
| DP13 | 33% | 100% | | | | | | | | | |
| DP18 | 33% | 100% | | | | | | | | | |
| DP19 | 33% | 100% | | | | | | | | | |
| DPw1 | 33% | 100% | | | | | | | | | |
| DPw3 | 33% | 100% | | | | | | | | | |
| DPw5 | 33% | 100% | | | | | | | | | |
| DPw6 | 33% | 100% | | | | | | | | | |
| DQ5 | 33% | 100% | | | | | | | | | |
| DQ6 | 33% | 100% | | | | | | | | | |

Table 28. Summary of the 577th Serum Exchange (Serum #1301-1304) by Single Antigen - class II

| Method: Luminex - SAB | | | | | | | | | | | |
|-----------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1301 *** | | | *** Serum 1302 *** | | | *** Serum 1303 *** | | | *** Serum 1304 *** | | |
| 22 typing Labs | | | 15 typing Labs | | | 22 typing Labs | | | 20 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| DPw1 | 100% | 100% | NEG | 93% | - | DR7 | 100% | 86% | DR52 | 100% | 46% |
| DPw3 | 100% | 100% | | | | DR9 | 100% | 29% | DR17 | 95% | 100% |
| DPw5 | 100% | 100% | | | | DR10 | 9% | 100% | DR18 | 95% | 100% |
| DPw6 | 100% | 100% | | | | DQ5 | 9% | 50% | DR13 | 75% | 100% |
| DQ2 | 100% | 100% | | | | | | | DR14 | 75% | 100% |
| DQ4 | 100% | 100% | | | | | | | DR8 | 75% | 100% |
| DQ8 | 100% | 100% | | | | | | | DR11 | 2% | 100% |
| DQ9 | 100% | 100% | | | | | | | DR1404 | 20% | 100% |
| DQ7 | 100% | 94% | | | | | | | DR3 | 15% | 100% |
| DR7 | 95% | 100% | | | | | | | DQA1*05 | 10% | 100% |
| DP11 | 91% | 100% | | | | | | | DR1403 | 10% | 100% |
| DP13 | 91% | 100% | | | | | | | DP15 | 5% | 100% |
| DP14 | 91% | 100% | | | | | | | DQ2 | 5% | 100% |
| DP15 | 91% | 100% | | | | | | | | | |
| DP17 | 91% | 100% | | | | | | | | | |
| DP19 | 91% | 100% | | | | | | | | | |
| DP9 | 91% | 100% | | | | | | | | | |
| DP18 | 86% | 83% | | | | | | | | | |
| DP10 | 64% | 100% | | | | | | | | | |
| DP20 | 64% | 100% | | | | | | | | | |
| DP28 | 64% | 33% | | | | | | | | | |
| DPA1*02 | 59% | 100% | | | | | | | | | |
| DPA1*04 | 59% | 100% | | | | | | | | | |
| DQ6 | 59% | 54% | | | | | | | | | |
| DQ5 | 55% | 100% | | | | | | | | | |
| DQA1*04 | 36% | 100% | | | | | | | | | |
| DQA1*05 | 36% | 100% | | | | | | | | | |
| DQA1*06 | 36% | 100% | | | | | | | | | |
| DQA1*03 | 32% | 100% | | | | | | | | | |
| DQA1*02 | 27% | 100% | | | | | | | | | |
| DPA1*01 | 13% | 100% | | | | | | | | | |
| DPA1*03 | 13% | 100% | | | | | | | | | |
| DPw4 | 9% | 100% | | | | | | | | | |
| DQ3 | 9% | 100% | | | | | | | | | |

Table 29. Individual laboratory results for Serum #1301 - #1304 by NIH-Standard - class I

| **** Serum 1301 **** | | | | **** Serum 1302 **** | | | | **** Serum 1303 **** | | | **** Serum 1304 **** | | | |
|----------------------|-------|--|-------|----------------------|--|-------|-------|----------------------|-------|-------|----------------------|-------|--------|--|
| Ctr | % POS | | Other | % POS | | Other | % POS | B12 | Other | % POS | B8 | Other | Method | |
| 786 | | | | | | | | + | | | + | | STD | |

STD = NIH-standard

Table 30. Individual laboratory results for Serum #1301 - #1304 by Antiglobulin and Flow Cytometry - class I

| **** Serum 1301 **** | | | | | | | **** Serum 1302 **** | | | | | | **** Serum 1303 **** | | | | | | | **** Serum 1304 **** | | | | | | | | | |
|----------------------|-------|----|-----|-----|-----|-------|----------------------|-----|-----|-----|----|----|----------------------|-------|-----|-----|-----|-----|-----|----------------------|-----|-----------------|-------|----|-----|-----|-----|-------|--------------|
| Ctr | % POS | A1 | A33 | A23 | B18 | Other | % POS | B37 | B41 | B42 | B7 | B8 | Other | % POS | B44 | B45 | B49 | B60 | B13 | B40 | B41 | Other | % POS | B8 | B64 | B65 | B42 | Other | Method |
| 774 | 35 | + | + | + | + | | 46 | + | + | + | + | + | B62,B39,B18 | 53 | + | + | + | + | + | | + | B61,B62,B50,B47 | 23 | + | + | + | + | | Antiglobulin |
| 786 | | | | | | | | | | | | | Cw7 | | + | + | + | + | | + | | | | + | | | | | Antiglobulin |

| **** Serum 1301 **** | | | | | | | **** Serum 1302 **** | | | | | | **** Serum 1303 **** | | | | | | | **** Serum 1304 **** | | | | | | | | | |
|----------------------|-------|--|--|--|--|-------|----------------------|--|--|--|--|--|----------------------|-------|--|--|--|--|--|----------------------|--|-------|-------|--|--|--|--|-------|--------|
| Ctr | % POS | | | | | Other | % POS | | | | | | Other | % POS | | | | | | | | Other | % POS | | | | | Other | Method |
| 5214 | 90 | | | | | | 96 | | | | | | | 95 | | | | | | | | | 96 | | | | | | FC |

FC = Flow Cytometry

Table 31. Individual laboratory results for Serum #1301 - #1304 by C1q- class I

| | | **** Serum 1301 **** | | | | | **** Serum 1302 **** | | | | | **** Serum 1303 **** | | | | | | | | | | **** Serum 1304 **** | | | | | | | | | | | |
|------|-------|----------------------|--|--|-------|-------|----------------------|------|-----|------|-----|----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-------|-------|-----|-----|-----|-----|----|-----|-----|-------|--------|
| Ctr | % POS | | | | Other | % POS | B73 | Cw17 | Cw7 | Cw12 | Cw6 | Other | % POS | B13 | B41 | B44 | B45 | B47 | B49 | B50 | B60 | B61 | Other | % POS | B42 | B54 | B59 | B64 | B8 | B18 | B65 | Other | Method |
| 786 | | | | | | | + | + | + | | | | | + | + | + | + | + | + | + | + | | | + | + | + | + | + | | | | C1q | |
| 2400 | | | | | | | + | + | + | + | + | | | + | + | + | + | + | + | + | + | + | B76 | | + | + | + | + | + | + | | | C1q |

Table 32. Individual laboratory results for Serum #1301 - #1304 by Luminex PRA - class I

| **** Serum 1301 **** | | | | | | | | | | | | | | | | | **** Serum 1302 **** | | | | | | | | | | | | | | | | | | |
|----------------------|-------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|-------------------|-------|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|-------------------|--------|
| Ctr | % POS | A1 | A11 | A23 | A24 | A25 | A26 | A34 | A36 | A66 | A80 | A33 | A43 | B18 | B37 | B51 | B64 | B65 | Other | % POS | A11 | A25 | A26 | A34 | A36 | A80 | Cw7 | | | | | | | Other | Method |
| 2400 | 77 | | | | | | | | | | | | | | | | | | | 79 | | | | | | | | | | | | | | | PRA |
| 3753 | 72 | + | + | + | + | + | + | + | + | + | + | | | | | | | | | 90 | + | + | + | + | + | + | + | | | | | | | A33 | PRA |
| 8112 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B73,B76,B78,Cw18> | | + | + | + | + | + | + | + | | | | | | | Cw4,Cw6,B60,B61 > | PRA |

| **** Serum 1303 **** | | | | | | | | | | | | | | | | | **** Serum 1304 **** | | | | | | | | | | | | | | | | | | |
|----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|--|------------------|-------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-------|------------------|-----|
| Ctr | % POS | B13 | B41 | B44 | B45 | B46 | B47 | B49 | B50 | B60 | B61 | B62 | B72 | B73 | B75 | B82 | | | Other | % POS | A29 | A3 | A30 | A32 | A33 | A34 | A68 | B18 | B37 | B42 | B67 | B8 | Other | Method | |
| 2400 | 70 | | | | | | | | | | | | | | | | | | | 89 | | | | | | | | | | | | | | | PRA |
| 3753 | 60 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | B81 | 84 | + | + | + | + | + | + | + | + | + | + | + | | | | PRA |
| 8112 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | B48,B78,A1,A34 > | | + | + | + | + | + | + | + | + | + | + | + | | | Cw4,Cw6,A2,B61 > | PRA |

Table 23. Individual laboratory results for Serum #1301 by Luminex SAB - class I

| **** Serum 1301 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-------|----|-----|-------|-------|---------------------------------------|------------------------------|---------|
| Ctr | % POS | A1 | A25 | A43 | A80 | B18 | A34 | A26 | A36 | B73 | A11 | A24 | B64 | A33 | B65 | B76 | A23 | A66 | Cw6 | Cw7 | B78 | B51 | Cw18 | B37 | Cw4 | A6601 | B8 | A68 | A1101 | A1102 | Other | Method | |
| 615 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | B54,A69,B39, B*51:01, A*24:02 | LMX-SAB | |
| 725 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | LMX-SAB |
| 771 | 17 | + | + | + | + | + | + | + | + | + | + | + | | | | | | + | + | | | | | | | | | | | | B14 | LMX-SAB | |
| 774 | 45 | + | + | + | + | + | + | + | + | + | + | | + | | | + | | + | | | | + | | + | | | | | | | | LMX-SAB | |
| 786 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | B54,A69,B39 | LMX-SAB | |
| 910 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | | | | A*24:02,B*51:01 | LMX-SAB | |
| 1647 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | + | + | + | + | + | + | + | | | | | LMX-SAB | |
| 2400 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | | | | | | LMX-SAB | |
| 3753 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | LMX-SAB | |
| 3766 | 87 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B7801,A6602, A*24:02,A*68:01, B*51:01 | LMX-SAB | |
| 3808 | 15 | + | + | + | + | + | + | + | + | + | | + | + | | | | | | | | | | | | | + | | | + | + | | LMX-SAB | |
| 3966 | 30 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX-SAB | |
| 4322 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | B54,B67,A29,B39 | LMX-SAB | |
| 5214 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | B*51:01 | LMX-SAB | |
| 5219 | 13 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | + | | | + | + | A9,B15,A10,A19 > | LMX-SAB | |
| 5462 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | + | B7801,A6602, B*51:01,A*24:02 | LMX-SAB |
| 6649 | 26 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | LMX-SAB | |
| 8045 | 14 | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | | | | | | | | | | | | LMX-SAB | |
| 8082 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | Cw1 | LMX-SAB | |
| 8086 | 200 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | | A29 | LMX-SAB | |
| 8098 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | Bw4,Bw6,B5C,B8C > | LMX-SAB | |
| 8100 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | LMX-SAB | |
| 8103 | 15 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | | | + | + | B15,B14,B7801 | LMX-SAB | |
| 8121 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | | | | | | | | | | | | LMX-SAB | |

Table 34. Individual laboratory results for Serum #1302 by Luminex SAB - class I

| | | **** Serum 1302 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------------------|-----|------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|------|-----|---|---|---------|
| Ctr | % POS | B73 | Cw7 | Cw12 | Cw17 | B7 | B35 | B62 | B82 | B64 | B72 | B76 | B18 | B61 | B55 | B56 | B67 | B8 | B75 | B65 | A80 | B71 | A3 | B42 | B54 | A36 | B39 | Cw8 | A1 | A11 | B46 | A25 | Cw18 | Cw6 | Other | Method | |
| 615 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw4,B60,B48,A66, B*27:08,A*66:01, C*03:02 > | LMX-SAB | |
| 725 | | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | + | | | | | | | | | | | | | | | LMX-SAB |
| 771 | 17 | + | + | + | + | + | + | | + | | | | + | | | | | | | | | | | | | | | | | | | | | | B40,B15,B14 | LMX-SAB | |
| 774 | 55 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B60,B27,A43,B41 | LMX-SAB | |
| 786 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw4,B60,B48,A66 > | LMX-SAB | |
| 910 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B60,B48,B50,A26 > | LMX-SAB | |
| 1647 | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | LMX-SAB | |
| 2400 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | | + | + | + | | + | + | + | + | B60,B27,Cw16 | LMX-SAB | |
| 3753 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B60,A66,A26,A34 > | LMX-SAB |
| 3766 | 99 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw4,B60,B48,A66, C*03:02 > | LMX-SAB | |
| 3808 | 8 | + | + | + | + | | | + | | | + | | | | | | | | | | | | | | | | | | | | | | | | | LMX-SAB | |
| 3966 | 37 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | B60,B48,A66,B50 > | LMX-SAB |
| 4322 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw4,B60,B48,B78 > | LMX-SAB |
| 5214 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B60,B50,A26,A34 > | LMX-SAB |
| 5219 | 8 | + | + | + | + | + | + | + | + | + | | + | | + | | | | | | | | | + | | | | | | | | | | | | + | B40,B15,B70,B14 | LMX-SAB |
| 5462 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B60,A66,B27,A26, B*40:02,B*15:02, B*27:08,B*66:01 > | LMX-SAB |
| 6649 | 47 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B60,A66,B50,A26 > | LMX-SAB |
| 8045 | 36 | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | + | | | | A66,A26,A34,A43 > | LMX-SAB | |
| 8082 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw4,B60,B50,A26 > | LMX-SAB |
| 8086 | 200 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw16 | LMX-SAB |
| 8098 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | + | | | | | | | | + | B703,Bw6,B12C,B5C > | LMX-SAB |
| 8100 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | A66,B27,A26,A34 > | LMX-SAB |
| 8103 | 5 | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | B27,B2708,A1101 | LMX-SAB |
| 8121 | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | LMX-SAB |

Table 35. Individual laboratory results for Serum #1303 by Luminex SAB - class I

| **** Serum 1303 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|------|------|----|-----|-----|-----|-----|-----|-------|---|---------|
| Ctr | % POS | B13 | B41 | B44 | B45 | B46 | B47 | B49 | B50 | B60 | B61 | B62 | B71 | B72 | B76 | B82 | B35 | B73 | B75 | Cw9 | Cw10 | B39 | Cw16 | Cw1 | Cw8 | Cw12 | Cw14 | A1 | B78 | B64 | A23 | B48 | B18 | Cw7 | Other | Method |
| 615 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A66,B27,A34, A*34:01,A*24:02, A*66:01,B*27:05 > | LMX-SAB |
| 725 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | LMX-SAB |
| 771 | 20 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B3901 | LMX-SAB | |
| 774 | 71 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | LMX-SAB |
| 786 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A66,B27,A34 > | LMX-SAB |
| 910 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A34, A*24:02,A*34:01 | LMX-SAB |
| 1647 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | LMX-SAB |
| 2400 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A34 | LMX-SAB |
| 3753 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A34 | LMX-SAB |
| 3766 | 98 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A34,B7801,B8201, A*24:02,A*34:01 > | LMX-SAB |
| 3808 | 23 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | LMX-SAB |
| 3966 | 41 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A34,B65 | LMX-SAB |
| 4322 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A34,B65,B37 > | LMX-SAB |
| 5214 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A34,B8,A*34:01 | LMX-SAB |
| 5219 | 27 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A9,B40,B15 > | LMX-SAB |
| 5462 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B7801,B3901 | LMX-SAB |
| 6649 | 40 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A34 | LMX-SAB |
| 8045 | 20 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B3901 | LMX-SAB |
| 8082 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A34,B65 | LMX-SAB |
| 8086 | 200 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A66,B27,A34 > | LMX-SAB |
| 8098 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Bw4,Bw6,B12C,B5C > | LMX-SAB |
| 8100 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B12C | LMX-SAB |
| 8103 | 14 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,B40,B15,Cw3 > | LMX-SAB |
| 8121 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B3901 | LMX-SAB |

Table 36. Individual laboratory results for Serum #1304 by Luminex SAB - class I

| | | | **** Serum 1304 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|-----|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|------|------|-----|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----|-----|-------|-----|----|--|--|---------|---------------------------|--------------|---------|---------|
| Ctr | % POS | A29 | A33 | A34 | A68 | A69 | B18 | B37 | B38 | B41 | B42 | B54 | B55 | B59 | B67 | Cw1 | A3 | Cw8 | A36 | A30 | A32 | A74 | B64 | B65 | B8 | Cw12 | Cw16 | Cw4 | Cw14 | Cw15 | A31 | Cw18 | Cw7 | Cw5 | Cw6 | B39 | A23 | B61 | Cw2 | A66 | B46 | A6602 | B7 | B51 | B3901 | B48 | A2 | Other | Method | | | | | |
| 615 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A11,A24,B78, A*24:03,B*27:08, B*51:01,A*11:01> | LMX-SAB | | | | | |
| 725 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB | | | |
| 771 | 43 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B14 | LMX-SAB | | | | | |
| 774 | 82 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB | | | |
| 786 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A11,A24,B47 > B47,B81,B2708, B*51:01 | LMX-SAB | | | | |
| 910 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B8C | LMX-SAB | | |
| 1647 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB | |
| 2400 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB | |
| 3753 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A1101 | LMX-SAB | | |
| 3766 | 100 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A24,A203,B47, B*51:01> | LMX-SAB | | |
| 3808 | 42 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw403 | LMX-SAB | | | |
| 3966 | 45 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB |
| 4322 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B78,B47,B72 | LMX-SAB | | |
| 5214 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B2708,B*51:01 | LMX-SAB | | |
| 5219 | 40 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw403,A10,B22> | LMX-SAB | | |
| 5462 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB | |
| 6649 | 52 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB | |
| 8045 | 40 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB | |
| 8082 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B47,B72,B81> | LMX-SAB | |
| 8086 | 200 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A11,B27,B72 | LMX-SAB | | |
| 8098 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw403,Bw4,Bw6> | LMX-SAB | | |
| 8100 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX-SAB | |
| 8103 | 39 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B27,B8C | LMX-SAB | | |
| 8121 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw403,B14 | LMX-SAB | |

Table 37. Individual laboratory results for Serum #1301 - #1304 by Flow Cytometry and C1q - class II

| | **** Serum 1301 **** | | | | **** Serum 1302 **** | | | | **** Serum 1303 **** | | | | **** Serum 1304 **** | | | | |
|------|----------------------|--|--|-------|----------------------|--|--|-------|----------------------|--|--|-------|----------------------|--|--|-------|--------|
| Ctr | % POS | | | Other | % POS | | | Other | % POS | | | Other | % POS | | | Other | Method |
| 5214 | 93 | | | | 0 | | | | 28 | | | | 69 | | | | FC |

FC = Flow Cytometry

| | **** Serum 1301 **** | | | | **** Serum 1302 **** | | | | **** Serum 1303 **** | | | | **** Serum 1304 **** | | | | |
|------|----------------------|-----|-----|-------|----------------------|--|--|-------|----------------------|--|--|-------|----------------------|--|--|-------|--------|
| Ctr | % POS | DQ2 | DQ7 | Other | % POS | | | Other | % POS | | | Other | % POS | | | Other | Method |
| 2400 | | + | + | | NT | | | | NT | | | | NT | | | | C1q |

Table 38. Individual laboratory results for Serum #1301 - #1304 Luminex PRA- class II

| Ctr | **** Serum 1301 **** | | | | | | | | **** Serum 1302 **** | | | | **** Serum 1303 **** | | | | **** Serum 1304 **** | | | | | | Method | | |
|------|----------------------|-----|-----|-----|-----|-----|-----|----------------------|----------------------|--|--|-------|----------------------|-----|-----|-------|----------------------|------|------|------|------|-----|--------|------|-------|
| | % POS | DQ2 | DQ4 | DQ7 | DQ8 | DQ9 | DR7 | Other | % POS | | | Other | % POS | DR7 | DR9 | Other | % POS | DR13 | DR14 | DR17 | DR18 | DR8 | | DR52 | Other |
| 2400 | 94 | | | | | | | | 0 | | | | 11 | | | | 29 | | | | | | | | PRA |
| 3753 | 67 | + | + | + | + | + | + | | 0 | | | | 20 | + | + | | 53 | + | + | + | + | + | | | PRA |
| 8112 | | + | + | + | + | + | + | DQ5,DPw1,DPw3,DPw5 > | 0 | | | | | + | + | | | + | + | + | + | + | + | | PRA |

Table 39. Individual laboratory results for Serum #1301 by Luminex - class II

| | | **** Serum 1301 **** | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-----|----------------------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|------|------|------|------|---------|---------|-----|---------------------------------------|---------------------------|---------|
| Ctr | Ctr | DPw1 | DPw3 | DPw5 | DPw6 | DQ2 | DQ4 | DQ8 | DQ9 | DQ7 | DR7 | DP11 | DP13 | DP14 | DP15 | DP17 | DP19 | DP9 | DP18 | DP10 | DP20 | DP28 | DPA1*02 | DPA1*04 | DQ6 | Other | Method | |
| 615 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5,DQB1*05:01,DQB1*06:01 | LMX-SAB |
| 771 | 43 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQA1*03,DQA1*04,DQA1*05,DQA1*06 | LMX-SAB | |
| 774 | 94 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | LMX-SAB | |
| 910 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5,DQB1*05:01,DQB1*06:01 | LMX-SAB | |
| 1647 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | LMX-SAB | |
| 2400 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5 | LMX-SAB | |
| 3753 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | LMX-SAB | |
| 3766 | 87 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5,DQB1*05:01,DQB1*06:01 | LMX-SAB | |
| 3808 | 47 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQA1*02,DQA1*03,DQA1*04,DQA1*05 > | LMX-SAB | |
| 3966 | 52 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5 | LMX-SAB | |
| 4322 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DR9,DQ5,DPA1*01,DPA1*03 > | LMX-SAB | |
| 5214 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5,DQB1*05:01,DQB1*06:01, DPA1*04:01 | LMX-SAB | |
| 5219 | 47 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ3,DQA1*02,DQA1*03,DQA1*04 > | LMX-SAB | |
| 5462 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5,DQB1*05:01,DQB1*06:01 | LMX-SAB | |
| 6649 | 51 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DPA1*03,DQA1*04,DQA1*05,DQA1*06 | LMX-SAB | |
| 8045 | 47 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DPw4 | LMX-SAB | |
| 8082 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5,DPA1*01,DPA1*03,DQA1*02 > | LMX-SAB | |
| 8086 | 200 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DR9,DQ5 | LMX-SAB | |
| 8098 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQA1*02,DQA1*03,DQA1*04,DQA1*05 > | LMX-SAB | |
| 8100 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ5 | LMX-SAB | |
| 8103 | 47 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | DQ3,DPA1*01,DQA1*02,DQA1*03 > | LMX-SAB | |
| 8121 | | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | DPw4 | LMX-SAB | |

Table 40. Individual laboratory results for Serum #1302-1304 by Luminex - class II

| **** Serum 1302 **** | | | | **** Serum 1303 **** | | | | | **** Serum 1304 **** | | | | | | | | | | | | | | | | |
|----------------------|-------|-------|-------|----------------------|-----|------|-----|------------|----------------------|------|------|------|------|------|-----|------|--------|-----|---------|--------|------|-----|--|---------|---------|
| Ctr | % POS | Other | % POS | DR7 | DR9 | DR10 | DQ5 | Other | % POS | DR52 | DR17 | DR18 | DR13 | DR14 | DR8 | DR11 | DR1404 | DR3 | DQA1*05 | DR1403 | DP15 | DQ2 | Other | Method | |
| 615 | 0 | | | + | + | + | | | | + | + | + | + | + | + | + | | | | | | + | DQB1*02:01 | LMX-SAB | |
| 771 | 0 | | 2 | + | + | | | | 13 | + | + | + | + | + | + | | + | | | | + | | | | LMX-SAB |
| 774 | 0 | | 14 | + | + | | | | 29 | + | + | + | | | | | | | | | | | | | LMX-SAB |
| 910 | 0 | | | + | + | | | | | + | + | + | + | + | + | | | | | | | | DRB3*01:01,DRB3*03:01 | LMX-SAB | |
| 1647 | | | | + | + | | | | | | | | | | | | | | | | | | | | LMX-SAB |
| 2400 | | | | + | + | | | | | + | + | + | | | | | | | | | | | | | LMX-SAB |
| 3753 | 0 | | | + | + | | | | | + | + | + | + | + | + | | | | | | | | DRB3*01:01,DRB3*03:01 | LMX-SAB | |
| 3766 | 0 | | 25 | + | + | | + | DQB1*05:01 | 31 | + | + | + | + | + | + | | | | | | | | DRB3*01:01,DRB3*03:01, DRB1*13:03, DRB1*14:01 | LMX-SAB | |
| 3808 | 0 | | 2 | + | + | | | | 4 | + | | | | | | | | + | | | | | | | LMX-SAB |
| 3966 | | | 4 | + | + | | | | 11 | + | + | + | + | + | + | | | | | | | | | | LMX-SAB |
| 4322 | | | | + | + | | | | | + | + | + | + | + | + | + | | | + | | | | | | LMX-SAB |
| 5214 | | | | + | + | | | | | + | + | + | | | | | | | | | | | DRB3*01 | LMX-SAB | |
| 5219 | 0 | | 2 | + | + | | | | 2 | + | + | + | | + | | | + | + | | | | | | | LMX-SAB |
| 5462 | 0 | | | + | + | | | | | + | + | + | + | + | + | + | | | + | | + | | | | LMX-SAB |
| 6649 | 0 | | 3 | + | + | | | | 11 | + | + | + | + | + | + | | | | | | | | | | LMX-SAB |
| 8045 | 0 | | 2 | + | + | | | | 15 | + | + | + | + | + | + | + | + | | | | + | | | | LMX-SAB |
| 8082 | 0 | | | + | + | | | | | + | + | + | + | + | + | | | | | | | | | | LMX-SAB |
| 8086 | 200 | | 200 | + | + | + | + | | 200 | + | + | + | + | + | + | + | | | | | | | | | LMX-SAB |
| 8098 | | | | + | + | | | | | + | + | + | + | + | + | | + | | | | | | | | LMX-SAB |
| 8100 | 0 | | | + | + | | | | | + | + | + | + | + | + | | | | | | | | | | LMX-SAB |
| 8103 | 0 | | 2 | + | + | | | | 6 | + | + | + | + | + | + | | | + | | | | | | | LMX-SAB |
| 8121 | | | | + | + | | | | | | | | | | | | | | | | | | | | LMX-SAB |