

SERUM EXCHANGE #552 OCTOBER 5, 2016

| | |
|------|-----------|
| Sera | 1201-1204 |
|------|-----------|

The results for **Serum Exchange 552 (sera 1201 - 1204)**, are summarized in Tables 16-21 and individual laboratory results by method are listed in

Tables 22-33. Sera reactive to B14 (B64 and B65) and A9 (A23 and A24) were examined in this study.

| 1201 | | method | #labs | B64 | B65 | B14 | B18 | B39 | B3901 | B46 | B52 | B8 | B51 | A1 | A33 | B37 | B78 | B7801 | B38 | B59 | B81 | B57 | A34 | A69 | A68 | A80 | A29 | Cw16 | Cw1 | Cw12 | Cw6 | Cw2 | Cw5 | | | | |
|---------|---------|--------|---------------------------|------|-----|-----|------|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|
| class I | NIH-Std | 4 | | | 50 | | | | | | | | | 25 | | | | | | | | | | | | | | | | | | | | | | | |
| | NIH-Ext | 2 | 50 | 50 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AHG | 3 | 67 | 67 | 33 | 100 | 67 | | 67 | 33 | 33 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Luminex | 30 | 90 | 90 | 17 | 100 | 83 | 20 | 93 | 90 | 100 | 90 | | 97 | 97 | 87 | 20 | 83 | 57 | 17 | 13 | 87 | 80 | 67 | 17 | 13 | 87 | 77 | 73 | 70 | 67 | 67 | | | | | |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ELISA | 2 | 100 | 100 | | 100 | 50 | | 100 | 50 | 100 | 100 | 100 | 50 | 100 | 100 | | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | | | | | | | | |
| | C1q | 1 | no consensus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Other | 2 | no consensus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1201 | | method | #labs | Cw10 | Cw8 | Cw9 | Cw15 | Cw18 | Cw7 | B54 | B73 | B67 | B42 | B55 | B71 | B47 | A74 | B27 | A26 | A24 | A31 | A19 | A32 | A43 | B41 | B48 | B63 | B7 | B75 | B44 | | | | | | | |
| class I | NIH-Std | 4 | | | | | | | | | | | | | | | | | | 25 | | 25 | | | | | | | | | | | | | | | |
| | Luminex | 30 | 63 | 40 | 37 | 23 | 17 | 13 | 83 | 80 | 70 | 47 | 37 | 37 | 20 | 17 | 17 | | | | | | 13 | 13 | 13 | | | | | | | | | | | | |
| | ELISA | 2 | | | | | | | | | | | | | | | | | 100 | | 50 | | | | | 50 | 50 | 50 | 50 | 50 | | | | | | | |

| 1201 | | method | #labs | DR11 | DR12 | DR14 | DR8 | DR13 | DR1 | DR7 | DR9 | DR17 | DR18 | DR52 | DQ7 | DR4 | DQ2 | DQ4 | DQ3 | DR1404 | DR3 | DQ6 | DR5 |
|----------|---------|--------|---------------------------|------|------|------|-----|------|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|--------|-----|-----|-----|
| class II | NIH-Ext | 1 | no consensus | | | | | | | | | | | | | | | | | | | | |
| | Luminex | 26 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96 | 92 | 92 | 92 | 88 | 62 | 54 | 27 | 15 | 12 | 12 | 8 | 8 | |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | |
| | C1q | 2 | no consensus | | | | | | | | | | | | | | | | | | | | |
| | Other | 1 | no consensus | | | | | | | | | | | | | | | | | | | | |

Serum 1201 was reported as positive to B14 (B64, B65) by all methods. Anti-B18 reactivity was also reported by AHG, Luminex, and Elisa. In addition, reactivity to a number of 1C, 5C, and 8C specificities was reported by various methods. Luminex and Elisa also reported reactivity to B37, B59, B81, and 10C specificities. Additional C-locus reactivity was reported by Luminex. For class II, reactivity to a number of DR and DQ specificities was reported by single antigen and PRA. In addition, DQA1*04, DQA1*05, DQA1*06 reactivity was reported by several labs.

| 1202 | method | #labs | B64 | B65 | B14 | B18 | B54 | B8 | B37 | A33 | B39 | B3901 | B38 | B59 | B27 | B2708 | B13 | B73 | B67 | A34 | A68 |
|---------|---------|-------|---------------------------|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-----|-----|-------|-----|------|------|-----|-----|
| class I | NIH-Std | 4 | | | 50 | | | | | | | | | | | | | | | | |
| | NIH-Ext | 2 | 50 | 50 | 50 | | | | | | | | | | | | | | | | |
| | AHG | 3 | 67 | 67 | 33 | 100 | | 100 | | 67 | | 33 | | | | | | | | | |
| | Luminex | 30 | 90 | 90 | 17 | 100 | 100 | 100 | 97 | 97 | 90 | 20 | 87 | 90 | 83 | 43 | 20 | 97 | 87 | 90 | 63 |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | |
| | ELISA | 2 | 100 | 100 | | 100 | 50 | 100 | 50 | | 50 | | 50 | 100 | 50 | | 50 | | | | |
| | C1q | 1 | no consensus | | | | | | | | | | | | | | | | | | |
| | Other | 2 | no consensus | | | | | | | | | | | | | | | | | | |
| 1202 | method | #labs | A69 | B51 | B42 | B47 | B46 | B7 | B78 | B7801 | B41 | B81 | B76 | Cw5 | Cw1 | Cw4 | Cw8 | Cw16 | Cw12 | B82 | |
| | Luminex | 30 | 63 | 63 | 57 | 50 | 37 | 37 | 30 | 17 | 27 | 23 | 20 | 87 | 33 | 30 | 20 | 27 | 20 | 17 | |

| 1202 | method | #labs | NEG | DPw1 | DPw5 | DR11 | DR53 | |
|----------|---------|-------|---------------------------|------|------|------|------|--|
| class II | NIH-Ext | 1 | no consensus | | | | | |
| | Luminex | 18 | 67 | 28 | 22 | 6 | 6 | |
| | Flow | 1 | no specificities assigned | | | | | |
| | C1q | 1 | no consensus | | | | | |
| | Other | 2 | no consensus | | | | | |

For **Serum 1202**, reactivity to B14 (B64, B65) was reported by all methods. In addition, AHG, Luminex, Elisa, and C1q reported reactivity to B18. Reactivity to other 8C specificities, as well as to B54, B37, A33, and 7C specificities was detected by various methods. Luminex also reported reactivity to a few 5C specificities and number of C-locus antigens. This sample was reported as negative for class II by 12 labs. Several other labs reported DP reactivity to DPw1 and DPw5.

| 1203 | method | #labs | A23 | A24 | A2403 | A9 | A25 | A32 | Bw4 | B37 | B38 | B44 | B49 | B52 | B53 | B57 | B58 | B59 | B27 | B13 | B63 | A80 | A2 | A203 | B47 | B51 | A1 | B77 | B76 | A68 | A69 | B35 | B18 | B78 | B15 | A36 | B65 |
|---------|---------|-------|---------------------------|-----|-------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| class I | NIH-Std | 4 | 25 | 50 | | 25 | | | | | | | | | | | | | | | | | | | | | 25 | | | | | | | | 25 | | |
| | NIH-Ext | 2 | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AHG | 2 | 100 | 100 | | | 100 | 100 | 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Luminex | 29 | 100 | 97 | 34 | | 100 | 100 | 34 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 90 | 90 | 97 | 90 | 17 | 86 | 86 | 72 | 90 | 86 | 83 | 83 | 83 | 24 | 14 | 10 | | |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ELISA | 2 | 100 | 50 | | | 100 | 100 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | 50 | 50 | | | | | | | | | | 50 | |
| | C1q | 1 | no consensus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Other | 2 | no consensus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 1203 | method | #labs | DR1 | DR10 | DR11 | DR4 | DR7 | DR9 | DR14 | DR53 | DQ8 | DQ9 | DQ7 | DP18 | DP28 | DPw3 | DP14 | DPw2 | DP17 | DQ4 | DP10 | DPw6 | DPw4 | DP20 | DP9 | DQ2 | DP19 | DP23 | DP11 | DPw1 | DP13 | DP402 | DP401 | DQ3 | DR1404 | DR5 | |
|----------|---------|-------|---------------------------|------|------|-----|-----|-----|------|------|-----|-----|-----|------|------|------|------|------|------|-----|------|------|------|------|-----|-----|------|------|------|------|------|-------|-------|-----|--------|-----|--|
| class II | NIH-Ext | 1 | no consensus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Luminex | 25 | 100 | 100 | 100 | 100 | 100 | 100 | 96 | 92 | 96 | 96 | 92 | 88 | 88 | 88 | 84 | 84 | 80 | 80 | 76 | 76 | 76 | 72 | 72 | 72 | 68 | 68 | 56 | 52 | 44 | 20 | 16 | 12 | 12 | 12 | |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C1q | 1 | no consensus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Other | 2 | no consensus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Serum 1203 was reported as positive to A23 and A24 by all methods. In addition, AHG, Luminex, and Elisa reported reactivity to A25 and A32. Luminex and Elisa reported anti-B37, -B38, -B44, and -A2 reactivity, as well as reactivity to a number of 5C and 7C specificities. Strong class II re-

activity to DR, DQ and DP antigens was reported by Luminex. Five labs reported anti-DPA1*01 and -DPA1*03 reactivity, 4 labs reported DQA1*03, DQA1*05, and DQA1*06 reactivity, and 3 labs reported DQA1*04 reactivity.

| 1204 | method | #labs | A23 | A24 | A2403 | A9 | A25 | B55 | A32 | B27 | B2708 | B7 | A1 | A80 | B56 | B57 | B58 | B42 | B49 | B54 | B37 | B38 | B44 | B45 | B51 | B52 |
|---------|---------|-------|---------------------------|-----|-------|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|------|-----|-----|-----|-----|-----|
| class I | NIH-Std | 4 | 50 | 50 | | 25 | | | | | | | | | | | | | | | | | | | | |
| | NIH-Ext | 3 | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| | AHG | 2 | 100 | 100 | | | 67 | 33 | 100 | | | 33 | 67 | | 33 | | | | | | | | | | | |
| | Luminex | 29 | 100 | 100 | 31 | | 100 | 100 | 97 | 97 | 38 | 93 | 93 | 79 | 93 | 93 | 90 | 90 | 90 | 90 | 86 | 86 | 86 | 45 | 83 | 83 |
| | Flow | 1 | no specificities assigned | | | | | | | | | | | | | | | | | | | | | | | |
| | ELISA | 2 | 100 | 100 | | | 100 | 100 | 100 | 50 | | 100 | 50 | 50 | | 50 | 50 | 100 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| | C1q | 1 | no consensus | | | | | | | | | | | | | | | | | | | | | | | |
| | Other | 2 | no consensus | | | | | | | | | | | | | | | | | | | | | | | |
| 1204 | method | #labs | B53 | B47 | B81 | B8101 | B13 | Bw4 | A31 | B67 | B59 | B63 | B76 | B77 | B15 | B82 | B8201 | B41 | B73 | Cw9 | Cw10 | A36 | A30 | A2 | A3 | B18 |
| | AHG | 2 | | | | | | 67 | | | | | | | | | | | | | | | | | | |
| | Luminex | 29 | 83 | 79 | 76 | 24 | 69 | 34 | 17 | 90 | 86 | 86 | 86 | 83 | 14 | 83 | 21 | 24 | 21 | 24 | 21 | 24 | 17 | | | |
| | ELISA | 2 | 50 | 50 | 100 | | 50 | | 50 | | | | | | | | | | | | | | | 50 | 50 | 50 |

| 1204 | method | #labs | NEG | DQ2 | DQ7 | DQ9 | DQ8 | |
|----------|---------|-------|---------------------------|-----|-----|-----|-----|--|
| class II | NIH-Ext | 1 | no consensus | | | | | |
| | Luminex | 15 | 67 | 27 | 20 | 20 | 20 | |
| | Flow | 1 | no specificities assigned | | | | | |
| | C1q | 1 | no consensus | | | | | |
| | Other | 2 | no consensus | | | | | |

For **Serum 1204**, anti-A23 and -A24 reactivity was reported by all methods. Some Luminex labs reported allele level reactivity to A*24:03. Anti-A25, -A32, -B55, and -B7 reactivity was detected by AHG, Luminex, and Elisa. In addition, reactivity to 5C and 7C specificities, as well as reactivity to A80, B38, B44, and B45, was detected by Luminex and ELISA. A number of labs (n=10) reported this sample as negative for class II. A few labs (n=5), on the other hand, reported reactivity to DQ antigens (DQ2, DQ7, DQ8, DQ9), while several others reported allele specific DQA1*05:03, DQA1*05:05 reactivity.



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Table 16. Summary of the 552nd Serum Exchange (Serum #1201-1204) by NIH-Standard and NIH-Extended - class I

| Method: NIH-Standard | | | | | | | | | | | |
|----------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | |
| 4 typing Labs | | | 4 typing Labs | | | 4 typing Labs | | | 4 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| B14 | 50% | 100% | B14 | 50% | 100% | A24 | 50% | 39% | A23 | 50% | 100% |
| A19 | 25% | 88% | A24 | 25% | 6% | A23 | 25% | 100% | A24 | 50% | 78% |
| A1 | 25% | 67% | | | | A36 | 25% | 100% | A9 | 25% | 83% |
| A24 | 25% | 6% | | | | A9 | 25% | 100% | | | |
| | | | | | | A1 | 25% | 67% | | | |

| Method: NIH-Extended | | | | | | | | | | | |
|----------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | |
| 2 typing Labs | | | 2 typing Labs | | | 2 typing Labs | | | 2 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| B14 | 50% | 100% | B14 | 50% | 100% | A23 | 100% | 100% | A23 | 100% | 100% |
| B64 | 50% | 100% | B64 | 50% | 100% | A24 | 100% | 77% | A24 | 100% | 69% |
| B65 | 50% | 100% | B65 | 50% | 100% | | | | | | |

Table 18. Summary of the 552nd Serum Exchange (Serum #1201-1204) by Luminex - class I

| Method: Luminex | | | | | | | | | | | |
|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | |
| 30 typing Labs | | | 30 typing Labs | | | 29 typing Labs | | | 29 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| B18 | 100% | 100% | B18 | 100% | 100% | A23 | 100% | 100% | A23 | 100% | 100% |
| B8 | 100% | 100% | B54 | 100% | 100% | A25 | 100% | 100% | A24 | 100% | 100% |
| A33 | 97% | 100% | B8 | 100% | 100% | A32 | 100% | 100% | A25 | 100% | 100% |
| B37 | 97% | 75% | B73 | 97% | 100% | A24 | 97% | 100% | B55 | 100% | 100% |
| B46 | 93% | 100% | B37 | 97% | 75% | A80 | 97% | 100% | A32 | 97% | 100% |
| B52 | 90% | 100% | A33 | 97% | 62% | B37 | 93% | 100% | B27 | 97% | 100% |
| B64 | 90% | 100% | B39 | 90% | 100% | B38 | 93% | 100% | A1 | 93% | 100% |
| B65 | 90% | 100% | B59 | 90% | 100% | B44 | 93% | 100% | B56 | 93% | 100% |
| B51 | 90% | 83% | B64 | 90% | 100% | B49 | 93% | 100% | B57 | 93% | 100% |
| B78 | 87% | 100% | B65 | 90% | 100% | B52 | 93% | 100% | B7 | 93% | 100% |
| Cw16 | 87% | 100% | A34 | 90% | 50% | B53 | 93% | 100% | B42 | 90% | 100% |
| A34 | 87% | 50% | B67 | 87% | 100% | B57 | 93% | 100% | B49 | 90% | 100% |
| B39 | 83% | 100% | Cw5 | 87% | 100% | B58 | 93% | 100% | B54 | 90% | 100% |
| B38 | 83% | 80% | B38 | 87% | 80% | B59 | 93% | 100% | B58 | 90% | 100% |
| B54 | 83% | 75% | B27 | 83% | 75% | B27 | 93% | 50% | B67 | 90% | 100% |
| B73 | 80% | 100% | B55 | 73% | 100% | B13 | 90% | 100% | B37 | 86% | 100% |
| A69 | 80% | 75% | A69 | 63% | 100% | B63 | 90% | 100% | B38 | 86% | 100% |
| Cw1 | 77% | 50% | A68 | 63% | 50% | B77 | 90% | 100% | B44 | 86% | 100% |
| Cw12 | 73% | 100% | B51 | 63% | 50% | A2 | 90% | 81% | B59 | 86% | 100% |
| B67 | 70% | 100% | B42 | 57% | 100% | B47 | 86% | 100% | B63 | 86% | 100% |
| Cw6 | 70% | 100% | B47 | 50% | 100% | B51 | 86% | 100% | B76 | 86% | 100% |
| A68 | 67% | 100% | B2708 | 43% | 100% | B76 | 86% | 100% | B51 | 83% | 100% |
| Cw2 | 67% | 100% | B46 | 37% | 100% | A68 | 83% | 100% | B52 | 83% | 100% |
| Cw5 | 67% | 100% | B7 | 37% | 100% | A69 | 83% | 50% | B53 | 83% | 100% |
| Cw10 | 63% | 50% | Cw1 | 33% | 40% | B35 | 83% | 50% | B77 | 83% | 100% |
| B59 | 57% | 100% | Cw4 | 30% | 100% | A1 | 72% | 100% | B82 | 83% | 100% |
| B42 | 47% | 100% | B78 | 30% | 50% | A2403 | 34% | 100% | A80 | 79% | 100% |
| Cw8 | 40% | 100% | B41 | 27% | 100% | Bw4 | 34% | 100% | B47 | 79% | 100% |
| B55 | 37% | 100% | Cw16 | 27% | 50% | B18 | 24% | 100% | B81 | 76% | 100% |
| B71 | 37% | 100% | B81 | 23% | 100% | A203 | 17% | 100% | B13 | 69% | 100% |
| Cw9 | 37% | 100% | Cw8 | 20% | 100% | B78 | 14% | 100% | B45 | 45% | 100% |
| Cw15 | 23% | 100% | B13 | 20% | 100% | B15 | 10% | 100% | B2708 | 38% | 100% |
| B3901 | 20% | 100% | B3901 | 20% | 100% | | | | A2403 | 31% | 100% |
| B7801 | 20% | 100% | B76 | 20% | 100% | | | | Bw4 | 34% | 97% |
| B47 | 20% | 100% | Cw12 | 20% | 67% | | | | A36 | 24% | 100% |
| A74 | 17% | 100% | B7801 | 17% | 100% | | | | B41 | 24% | 100% |

Table 18. Summary of the 552nd Serum Exchange (Serum #1201-1204) by Luminex - class I

| Method: Luminex | | | | | | | | | | | |
|--------------------|-----|------|--------------------|-----|------|--------------------|--|--|--------------------|-----|------|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | |
| 30 typing Labs | | | 30 typing Labs | | | 29 typing Labs | | | 29 typing Labs | | |
| A80 | 17% | 100% | B14 | 17% | 100% | | | | B8101 | 24% | 100% |
| B14 | 17% | 100% | B82 | 17% | 100% | | | | Cw9 | 24% | 100% |
| B27 | 17% | 100% | | | | | | | B73 | 21% | 100% |
| B81 | 17% | 100% | | | | | | | B8201 | 21% | 100% |
| Cw18 | 17% | 100% | | | | | | | Cw10 | 21% | 100% |
| A29 | 13% | 100% | | | | | | | A30 | 17% | 100% |
| A32 | 13% | 100% | | | | | | | A31 | 17% | 100% |
| A43 | 13% | 100% | | | | | | | B15 | 14% | 100% |
| B41 | 13% | 100% | | | | | | | | | |
| B57 | 13% | 100% | | | | | | | | | |
| Cw7 | 13% | 100% | | | | | | | | | |

Table 19. Summary of the 552nd Serum Exchange (Serum #1201-1204) by Flow Cytometry and ELISA - class I

| Method: Flow Cytometry | | | | | | | | | | | |
|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | |
| 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 antigens assigned | | | no antigens assigned | | | no antigens assigned | | | no antigens assigned | | |

| Method: Elisa | | | | | | | | | | | |
|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | |
| 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 | 100% | 100% | B18 | 100% | 100% | A23 | 100% | 100% | A23 | 100% | 100% |
| A26 | 100% | 100% | B59 | 100% | 100% | A25 | 100% | 100% | A24 | 100% | 100% |
| B18 | 100% | 100% | B64 | 100% | 100% | A32 | 100% | 100% | A25 | 100% | 100% |
| B37 | 100% | 100% | B65 | 100% | 100% | A24 | 50% | 100% | A32 | 100% | 100% |
| B46 | 100% | 100% | B8 | 100% | 100% | A80 | 50% | 100% | B42 | 100% | 100% |
| B51 | 100% | 100% | B27 | 50% | 100% | B13 | 50% | 100% | B55 | 100% | 100% |
| B64 | 100% | 100% | B37 | 50% | 100% | B37 | 50% | 100% | B7 | 100% | 100% |
| B65 | 100% | 100% | B39 | 50% | 100% | B38 | 50% | 100% | B81 | 100% | 100% |
| B78 | 100% | 100% | B54 | 50% | 100% | B44 | 50% | 100% | A1 | 50% | 100% |
| B8 | 100% | 100% | B13 | 50% | 50% | B47 | 50% | 100% | A2 | 50% | 100% |
| A29 | 50% | 100% | B38 | 50% | 50% | B49 | 50% | 100% | A3 | 50% | 100% |
| A31 | 50% | 100% | | | | B51 | 50% | 100% | A31 | 50% | 100% |
| A34 | 50% | 100% | | | | B52 | 50% | 100% | A80 | 50% | 100% |
| A68 | 50% | 100% | | | | B53 | 50% | 100% | B13 | 50% | 100% |
| A69 | 50% | 100% | | | | B57 | 50% | 100% | B18 | 50% | 100% |
| A80 | 50% | 100% | | | | B58 | 50% | 100% | B27 | 50% | 100% |
| B38 | 50% | 100% | | | | B59 | 50% | 100% | B37 | 50% | 100% |
| B39 | 50% | 100% | | | | B63 | 50% | 100% | B38 | 50% | 100% |
| B48 | 50% | 100% | | | | B65 | 50% | 100% | B44 | 50% | 100% |
| B52 | 50% | 100% | | | | Bw4 | 50% | 100% | B45 | 50% | 100% |
| B59 | 50% | 100% | | | | A2 | 50% | 50% | B47 | 50% | 100% |
| B63 | 50% | 100% | | | | B27 | 50% | 50% | B49 | 50% | 100% |
| B7 | 50% | 100% | | | | | | | B51 | 50% | 100% |
| B75 | 50% | 100% | | | | | | | B52 | 50% | 100% |
| B81 | 50% | 100% | | | | | | | B53 | 50% | 100% |
| A33 | 50% | 50% | | | | | | | B54 | 50% | 100% |
| B44 | 50% | 50% | | | | | | | B57 | 50% | 100% |
| B57 | 50% | 50% | | | | | | | B58 | 50% | 100% |

Table 20. Summary of the 552nd Serum Exchange (Serum #1201-1204) by Luminex - class II

| Method: Luminex | | | | | | | | | | | |
|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|--------------------|-----------|-----------|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | |
| 26 typing Labs | | | 18 typing Labs | | | 25 typing Labs | | | 15 typing Labs | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion |
| DR11 | 100% | 100% | NEG | 67% | 100% | DR1 | 100% | 100% | NEG | 67% | 100 |
| DR12 | 100% | 100% | DPw1 | 28% | 100% | DR10 | 100% | 100% | DQ2 | 27% | 20% |
| DR14 | 100% | 100% | DPw5 | 22% | 50% | DR11 | 100% | 100% | DQ7 | 20% | 100% |
| DR8 | 100% | 100% | DR11 | 6% | 50% | DR4 | 100% | 100% | DQ9 | 20% | 100% |
| DR13 | 100% | 89% | DR53 | 6% | 50% | DR7 | 100% | 100% | DQ8 | 20% | 33% |
| DR1 | 100% | 86% | | | | DR9 | 100% | 100% | | | |
| DR7 | 100% | 86% | | | | DQ8 | 96% | 100% | | | |
| DR9 | 96% | 71% | | | | DR14 | 96% | 100% | | | |
| DR17 | 92% | 100% | | | | DQ9 | 96% | 90% | | | |
| DR18 | 92% | 100% | | | | DR53 | 92% | 100% | | | |
| DR52 | 92% | 100% | | | | DQ7 | 92% | 88% | | | |
| DQ7 | 88% | 100% | | | | DP18 | 88% | 100% | | | |
| DR4 | 62% | 20% | | | | DP28 | 88% | 100% | | | |
| DQ2 | 54% | 40% | | | | DPw3 | 88% | 100% | | | |
| DQ4 | 27% | 100% | | | | DP14 | 84% | 100% | | | |
| DQ3 | 15% | 100% | | | | DPw2 | 84% | 75% | | | |
| DR1404 | 12% | 100% | | | | DP17 | 80% | 100% | | | |
| DR3 | 12% | 100% | | | | DQ4 | 80% | 25% | | | |
| DQ6 | 8% | 100% | | | | DP10 | 76% | 100% | | | |
| DR5 | 8% | 100% | | | | DPw6 | 76% | 100% | | | |
| DQ1 | 4% | 100% | | | | DPw4 | 76% | 94% | | | |
| DQ5 | 4% | 100% | | | | DP20 | 72% | 100% | | | |
| DQ9 | 4% | 100% | | | | DP9 | 72% | 100% | | | |
| DR53 | 4% | 100% | | | | DQ2 | 72% | 40% | | | |
| DR6 | 4% | 100% | | | | DP19 | 68% | 100% | | | |
| | | | | | | DP23 | 68% | 100% | | | |
| | | | | | | DP11 | 56% | 100% | | | |
| | | | | | | DPw1 | 52% | 50% | | | |
| | | | | | | DP13 | 44% | 33% | | | |
| | | | | | | DP402 | 20% | 100% | | | |
| | | | | | | DP401 | 16% | 100% | | | |
| | | | | | | DQ3 | 12% | 100% | | | |
| | | | | | | DR1404 | 12% | 100% | | | |
| | | | | | | DR5 | 12% | 100% | | | |

Table 21. Summary of the 552nd Serum Exchange (Serum #1201-1204) by C1q and Other - class II

| Method: NIH-Extended | | | | | | | | | | | | |
|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|--|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | | |
| 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 | | | no consensus | | | no consensus | | | no consensus | | | |

| Method: Flow Cytometry | | | | | | | | | | | | |
|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|--|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | | |
| 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 antigens assigned | | | no antigens assigned | | | no antigens assigned | | | no antigens assigned | | | |

| Method: C1q | | | | | | | | | | | | |
|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|--|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | | |
| 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 | | | no consensus | | | no consensus | | | no consensus | | | |

| Method: Other | | | | | | | | | | | | |
|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|--|
| *** Serum 1201 *** | | | *** Serum 1202 *** | | | *** Serum 1203 *** | | | *** Serum 1204 *** | | | |
| 2 typing Labs | | | 2 typing Labs | | | 2 typing Labs | | | 2 typing Labs | | | |
| Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | Antigen | Consensus | Inclusion | |
| no consensus | | | no consensus | | | no consensus | | | no consensus | | | |

Table 22. Individual laboratory results for Serum #1201-#1204 by NIH-Standard and NIH-Extended - class I

| | **** Serum 1201 **** | | | | **** Serum 1202 **** | | | | **** Serum 1203 **** | | | | **** Serum 1204 **** | | | | |
|-------------------|----------------------|-----|--|--------|----------------------|-----|--|-------|----------------------|-----|--|-----------|----------------------|-----|-----|-------|--------|
| Investigator | % POS | B14 | | Other | % POS | B14 | | Other | % POS | A24 | | Other | % POS | A23 | A24 | Other | Method |
| Claas, F.H.J. | 58 | + | | A1,A19 | 8 | + | | | 46 | | | A9,A1,A36 | 21 | | | A9 | STD |
| McCluskey, James | 46 | | | | 11 | | | | 33 | | | | 39 | | | | STD |
| Vasilescu, Rodica | 10 | + | | | 8 | + | | | 11 | + | | A23 | 8 | + | + | | STD |
| Watson, Narelle | 5 | | | A24 | 3 | | | A24 | 13 | + | | | 25 | + | + | | STD |

STD=NIH-Standard

| | **** Serum 1201 **** | | | | | **** Serum 1202 **** | | | | | **** Serum 1203 **** | | | | **** Serum 1204 **** | | | | | |
|---------------------|----------------------|-----|-----|-----|-------|----------------------|-----|-----|-----|-------|----------------------|-----|-----|--|----------------------|-------|-----|-----|-------|--------|
| Investigator | % POS | B14 | B64 | B65 | Other | % POS | B14 | B64 | B65 | Other | % POS | A23 | A24 | | Other | % POS | A23 | A24 | Other | Method |
| Lardy, N.M. | 22 | + | | | | 11 | + | | | | 35 | + | + | | | 30 | + | + | | EXT |
| Reed, Elaine F. PhD | 5 | | + | + | | 5 | | + | + | | 33 | + | + | | | 34 | + | + | | EXT |

EXT=NIH-Extended

Table 24. Individual laboratory results for Serum #1201-#1204 by Other - class I

| | **** Serum 1201 **** | | | | | | | | | | | | | | | **** Serum 1202 **** | | | | | | | | | | |
|---------------------|----------------------|-----|-----|-----|-----|----|--|--|--|--|--|--|--|--|--|----------------------|--|-------|-------|-----|-----|-----|-----|----|-------|-------------------------|
| Investigator | % POS | B18 | B64 | B65 | B78 | B8 | | | | | | | | | | | | Other | % POS | B18 | B54 | B64 | B65 | B8 | Other | Method |
| Liu, Chang MD, PhD | 58 | | | | | | | | | | | | | | | | | | 44 | | | | | | | Other - Phenotype Beads |
| Reed, Elaine F. PhD | 30 | + | + | + | + | + | | | | | | | | | | | | | 30 | + | + | + | + | + | | Other - PRA |

| | **** Serum 1203 **** | | | | | | | | | | | | | | | | | | **** Serum 1204 **** | | | | | | | | | | | | |
|---------------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-------|-------|----|-----|-----|-----|-----|-------|-------------------------|
| Investigator | % POS | A23 | A24 | A25 | A32 | A68 | B13 | B27 | B37 | B38 | B44 | B47 | B49 | B51 | B52 | B53 | B57 | B58 | B59 | B63 | B77 | Bw4 | Other | % POS | A1 | A23 | A24 | A25 | A32 | Other | Method |
| Liu, Chang MD, PhD | 82 | | | | | | | | | | | | | | | | | | | | | | | | 85 | | | | | | Other - Phenotype Beads |
| Reed, Elaine F. PhD | 84 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 80 | + | + | + | + | + | | Other - PRA |

Table 25. Individual laboratory results for Serum #1201 by Luminex - class I

| | | **** Serum 1201 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|----------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-------|-------|--------------------------|---------------------------|-------------------|-------------------|-------------------|-----|
| Investigator | % POS | B18 | B8 | A33 | B37 | B46 | B52 | B64 | B65 | B51 | B78 | Cw16 | A34 | B39 | B38 | B54 | B73 | A69 | Cw1 | Cw12 | B67 | Cw6 | A68 | Cw2 | Cw5 | Cw10 | B59 | B42 | Cw8 | B55 | B71 | Cw9 | Cw15 | B3901 | B7801 | Other | Method | | | | |
| Abu Amin, Noryati | Multi | + | + | | + | | + | + | + | | + | | + | | | | | + | | | | | | | | | | | | | | | | | | B48,B49,B47,B82 | LMX | | | | |
| Al-Attas, Rabab A. M | Multi | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | LMX | | | |
| Arnold, Paula PhD | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | + | | | | + | | + | | | | | | | | + | + | B*51:02,C*03:02, A*34:02 | LMX | | | | |
| Bengochea, Carrette | 23 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | + | | | | | | | | | | | | | | B*51:02,C*03:02, A2,A2403 | LMX | | | |
| Cecka, J. Michael P | 49 | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | LMX | | | |
| Chen, Dong-Feng P | | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | | | | LMX | | | |
| Daniel, Dolly | 5 | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | | | | | | | | | | | | | | | | | | + | + | B5,A19,B14,Bw6 | LMX | | | | |
| Danish, Adel | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | | + | | + | + | + | | | | | | | | | | | | LMX | | | |
| Dunckley, Heather | 100 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | A24,B47,B27,A26 > | LMX | | | | |
| Eckels/CPMC, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | + | | | | | | | | | | | LMX | | |
| Fort, Marylise | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | LMX | | | |
| Hahn, Amy B. PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | LMX | | | |
| Hamdi, Nuha | 47 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | LMX | | | |
| Hod, Reut | 50 | + | + | + | + | | | + | + | + | + | | + | | | | + | + | | | | + | | | | + | + | | | | | | | | | | B49,B47,B82 | LMX | | | |
| Holdsworth, Rhonda | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | Cw18 | LMX | | |
| Juarez, Fabiola | 24 | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | | + | + | + | + | | | + | + | | | | | | | | | | | | B76 | LMX | | |
| Keming, Du | 14 | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | + | + | | | | | | | | | | | | | | | | | | | LMX | | |
| Lardy, N.M. | | + | + | + | + | + | + | + | + | + | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | LMX | | |
| Liu, Chang MD, PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | LMX | | |
| Loewenthal , Ron M | 31 | + | + | + | + | + | | | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | Cw4,A2,B47,B27 > | LMX | | | | |
| McCluskey, James | 99 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A29,A74,A43,A80 > | LMX | | |
| Pancoska, Carol Ph | 42 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | LMX | | |
| Permpikul, Vejbaesy | 28 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | LMX | | |
| Pule, Ziningi | 25 | + | + | + | + | + | | | | | + | + | + | + | + | + | + | + | | | | + | + | | | | | | | | | | | | | | | A24,B27,B14,B81 > | LMX | | |
| Reed, Elaine F. PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | LMX | | |
| V.Brouard, M.Tonye | 29 | + | + | + | + | + | + | + | + | + | | + | + | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A43,A80 | LMX | | |
| Vasilescu, Rodica | | + | + | + | + | + | + | + | + | + | | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | |
| Vather/JHB, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | B61,B47,B27,A26 > | LMX |
| Vather/Pinetown, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | A29,A74,A24,B27 > | LMX |
| Xu, Ri | | + | + | + | | + | | | | | + | | | + | | | | | | | | | | | | | | | | | | | | | | | | | B14,B5C,B8C,B7C > | LMX | |

Table 26. Individual laboratory results for Serum #1202 by Luminex - class I

| | | **** Serum 1202 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|----------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|----|-----|-----|-----|-----|------|-----|-----|-------|-------------------|-----------------------|--|
| Investigator | % POS | B18 | B54 | B8 | B73 | B37 | A33 | B39 | B59 | B64 | B65 | A34 | B67 | Cw5 | B38 | B27 | B55 | A69 | A68 | B51 | B42 | B47 | B2708 | B46 | B7 | Cw1 | Cw4 | B78 | B41 | Cw16 | B81 | Cw8 | Other | | | |
| Abu Amin, Noryati | Multi | + | + | + | | + | + | + | + | + | + | + | + | | | + | + | + | + | | + | | | | | + | | | + | + | | + | | B48,B49,B75,A25 > | | |
| Al-Attas, Rabab A. M | Multi | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | + | | | | | | | | |
| Arnold, Paula PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | + | | | | | | | | | | | B3901,B*27:08,A*34:02 | |
| Bengochea, Carrette | 24 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | + | + | | | | | | | | | | | + | B7801 | |
| Cecka, J. Michael P | 35 | + | + | + | + | + | + | | | + | + | + | | | + | | | + | | | | | | | | | + | | + | | + | | | | B52,Cw12 | |
| Chen, Dong-Feng P | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | B7801 | |
| Daniel, Dolly | 8 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | + | | | | | | | | | | + | B14,B16,Bw4,Bw6 > | |
| Danish, Adel | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | | | | | | | | |
| Dunckley, Heather | 95 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B60,B13,B82,B76 > | |
| Eckels/CPMC, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | |
| Fort, Marylise | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B60,B61,B13,B82 > | |
| Hahn, Amy B. PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | |
| Hamdi, Nuha | 36 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | | | | | | | | | | | | | | | |
| Hod, Reut | 32 | + | + | + | + | + | | | + | + | + | | + | + | | | | + | | | | | | | | | | | | | | | | | B75 | |
| Holdsworth, Rhonda | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B13,B82,B76,Cw12 | |
| Juarez, Fabiola | 16 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | |
| Keming, Du | 15 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | |
| Lardy, N.M. | | + | + | + | + | + | + | + | + | + | + | | | + | + | | | | | | | | | | + | | | | | | | | | | + | |
| Liu, Chang MD, PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | | | | | | | | | | | | | | |
| Loewenthal , Ron M | 22 | + | + | + | + | + | + | + | | | + | + | + | + | | | | | + | + | | + | + | | | | | | | | | | | + | B14,B7801 | |
| McCluskey, James | 94 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B13,B82,B76,B8101 > | |
| Pancoska, Carol Ph | 37 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | |
| Permpikul, Vejbaesy | 20 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | + | | | | | | | | | | | | | | | |
| Pule, Ziningi | 17 | + | + | + | + | + | + | | | | + | + | | | | + | + | | + | | | | | | | | | | | | | | | + | B14,Bw4,Bw6 | |
| Reed, Elaine F. PhD | | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | | + | | | | | | | | | | | | | | A*34:02, B*51:01 | |
| V.Brouard, M.Tonye | 35 | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | B8101,B7801,B3901 | |
| Vasilescu, Rodica | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | B3901 | |
| Vather/JHB, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B13,B76 | |
| Vather/Pinetown, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B13,B76,B82,Cw12 > | |
| Xu, Ri | | + | + | + | + | | + | + | | | + | | | | | | | | | | | | | + | | | | | | | | | | + | B14,B12C,B5C,B8C > | |

Table 27. Individual laboratory results for Serum #1203 by Luminex - class I

| | | **** Serum 1203 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|----|-------|-----|-----------------------------------|-------------------|--------|-----|-----|
| Investigator | % POS | A23 | A25 | A32 | A24 | A80 | B37 | B38 | B44 | B49 | B52 | B53 | B57 | B58 | B59 | B27 | B13 | B63 | B77 | A2 | B47 | B51 | B76 | A68 | A69 | B35 | A1 | A2403 | Bw4 | B18 | Other | Method | | |
| Abu Amin, Noryati | Multi | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | + | + | | | | + | B61,B82,B45,B55 > | LMX | | |
| Al-Attas, Rabab A. M | Multi | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | LMX |
| Arnold, Paula PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | | | | | + | | Bw4 (wk pos A1,A2,A68,A69,B35) | LMX | | | |
| Bengochea, Carrette | 36 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX | |
| Cecka, J. Michael P | 71 | + | + | + | + | + | | | | | | | | | | | | | | | + | | | + | | + | | | + | | | LMX | | |
| Chen, Dong-Feng P | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A203,B7801 | LMX | | |
| Daniel, Dolly | 22 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A9,A203,B15,B5 > | LMX | | | |
| Danish, Adel | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX | | |
| Dunckley, Heather | 97 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX | |
| Eckels/CPMC, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX | |
| Fort, Marylise | NT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | LMX | |
| Hahn, Amy B. PhD | | + | + | + | + | + | | | | | | | | | | | | | | | + | | | + | + | + | + | | + | | | | LMX | |
| Hamdi, Nuha | 73 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | | | B46 | LMX | | |
| Hod, Reut | 76 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | + | | | | + | B61,B48,B82,B45 > | LMX | | | |
| Holdsworth, Rhonda | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B78 | LMX | | |
| Juarez, Fabiola | 35 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX | |
| Keming, Du | 29 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX | |
| Lardy, N.M. | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | | | | | | | | | | LMX |
| Liu, Chang MD, PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | LMX |
| Loewenthal , Ron M | 36 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX |
| McCluskey, James | 98 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A203,B78,B7801 | LMX | | |
| Pancoska, Carol Ph | 37 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX | |
| Permpikul, Vejbaesy | 35 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX | |
| Pule, Ziningi | 35 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B15,Bw6 | LMX | | | |
| Reed, Elaine F. PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | LMX |
| V.Brouard, M.Tonye | 73 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A203 | LMX | | | |
| Vasilescu, Rodica | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | A203 | LMX | | | |
| Vather/JHB, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B78,Cw5 | LMX | | | |
| Vather/Pinetown, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B78 | LMX | | | |
| Xu, Ri | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | + | | + | | | | | + | + | B15,B12C,B5C,B8C > | LMX | | | |

Table 28. Individual laboratory results for Serum #1204 by Luminex - class I

| | | **** Serum 1204 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|---------------------|-------------------|---------------------|-----------------------|-----|-----|
| Investigator | % POS | A23 | A24 | A25 | B55 | A32 | B27 | A1 | B56 | B57 | B7 | B42 | B49 | B54 | B58 | B67 | B37 | B38 | B44 | B59 | B63 | B76 | B51 | B52 | B53 | B77 | B82 | A80 | B47 | B81 | B13 | B45 | B2708 | A2403 | Other | Method | | | | |
| Abu Amin, Noryati | Multi | + | + | + | + | | + | | + | + | + | + | + | + | + | | + | + | + | + | + | | | | | | + | | + | + | + | + | | | A2,B60,B61,B48 > | LMX | | | | |
| Al-Attas, Rabab A. M | Multi | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX | | | | |
| Arnold, Paula PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | + | | | + | + | B8101,B8201 | LMX | | | | |
| Bengochea, Carrette | 36 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | | | + | + | B8101,Bw4,B8201 | LMX | | | | |
| Cecka, J. Michael P | 84 | + | + | + | + | + | | + | + | | + | + | | + | | + | | | | | | + | | | | | + | + | | + | | | | | Bw4 | LMX | | | | |
| Chen, Dong-Feng P | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | + | + | + | + | B8101,Bw4,Cw9,B8201 | LMX | | | | |
| Daniel, Dolly | 18 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | A9,B15,B5,B22 > | LMX | | | | |
| Danish, Adel | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX | | | |
| Dunckley, Heather | 98 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A30,A31,Cw10,Cw9 | LMX | | | |
| Eckels/CPMC, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Bw4 | LMX | | | |
| Fort, Marylise | NT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | LMX | | | |
| Hahn, Amy B. PhD | | + | + | + | + | + | + | + | + | | + | + | | + | | | | | | | | + | | | | | + | + | | + | | | | | Bw4 | LMX | | | | |
| Hamdi, Nuha | 84 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX | | |
| Hod, Reut | 72 | + | + | + | + | + | + | | + | + | + | + | + | | + | + | + | | | | + | + | | + | + | | + | + | | + | + | | + | | B61,B48,B50,A68 > | LMX | | | | |
| Holdsworth, Rhonda | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A36,B41,B73,Bw4 > | LMX | | | |
| Juarez, Fabiola | 34 | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX | | |
| Keming, Du | 36 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX | |
| Lardy, N.M. | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX |
| Liu, Chang MD, PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX |
| Loewenthal , Ron M | 40 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A36,B41,B73,B8101 > | LMX | | |
| McCluskey, James | 97 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A30,A31,A36,B41 > | LMX | | |
| Pancoska, Carol Ph | 43 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX | |
| Permpikul, Vejbaesy | 37 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX |
| Pule, Ziningi | 11 | + | + | + | + | + | + | | + | | | | | | | | | | | | | + | | | | | | | | | | | | | | B15,B16,Bw4,Bw6 | LMX | | | |
| Reed, Elaine F. PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | B41 | LMX | | |
| V.Brouard, M.Tonye | 58 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX |
| Vasilescu, Rodica | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A30,A31,A36,B8101 > | LMX | |
| Vather/JHB, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | Cw4,A30,A31,A36 > | LMX | |
| Vather/Pinetown, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A30,A36,Cw9,Cw10,B41> | LMX | |
| Xu, Ri | | + | + | + | + | + | + | | + | | | | + | | + | + | | | | | | | | | + | | | | | | | | | | | + | B15,B12C,B5C,B8C > | LMX | | |

Table 30. Individual laboratory results for Serum #1201-1202 by Luminex - class II

| Investigator | **** Serum 1201 **** | | | | | | | | | | | | | | | | | **** Serum 1202 **** | | | | | | | | | |
|----------------------|----------------------|------|------|------|-----|------|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|----------------------|-----|-------|-----------------------------------------------------------------------------|------|------|-------|-----------|-----|-----|
| | % POS | DR11 | DR12 | DR14 | DR8 | DR13 | DR1 | DR7 | DR9 | DR17 | DR18 | DR52 | DQ7 | DR4 | DQ2 | DQ4 | DQ3 | DR1404 | DR3 | Other | % POS | DPw1 | DPw5 | Other | Method | | |
| Abu Amin, Noryati | Multi | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | DR53 | 0 | | | | LMX | |
| Al-Attas, Rabab A. M | Multi | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | 0 | | | | LMX | |
| Arnold, Paula PhD | | | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | DQA1*05, DQA1*06 | 0 | | | | LMX | |
| Bengochea, Carrette | 45 | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | | | DQ5,DQ6 | | | | | LMX | |
| Cecka, J. Michael P | 86 | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | 0 | | | | LMX | |
| Chen, Dong-Feng P | | | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | DQA1*04, DQA1*05, DQA1*06 | | | | | LMX | |
| Daniel, Dolly | 28 | + | + | + | + | + | + | + | + | + | + | + | | + | | + | + | + | + | | DR5,DR6,DQ1,DQ9, DQA1*05:01, DRB3*03:01, DRB3*02:02, DQA1*06:01, DQA1*04:01 | 0 | | | | LMX | |
| Danish, Adel | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | + | + | | LMX | |
| Dunckley, Heather | 97 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | 0 | | | | LMX | |
| Eckels/CPMC, | | | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | DQA1*04, DQA1*05, DRB1*04:04 | | | | | LMX | |
| Fort, Marylise | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | NT | | | | LMX | |
| Hahn, Amy B. PhD | | | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | LMX | |
| Hamdi, Nuha | 97 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | 0 | + | + | DR11,DR53 | LMX | |
| Hod, Reut | 80 | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | 0 | | | | LMX | |
| Holdsworth, Rhonda | | | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | DQA1*04, DQA1*05, DQA1*06, DRB1*04:04, DRB1*04:01, DRB1*04:05 | | | + | + | | LMX |
| Keming, Du | 27 | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | | | LMX | |
| Liu, Chang MD, PhD | | | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | LMX | |
| McCluskey, James | 92 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | 3 | | | | LMX | |
| Pancoska, Carol Ph | 33 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | 0 | | | | LMX | |
| Permpikul, Vejbaesy | 31 | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | Neg | | | | LMX | |
| Pule, Ziningi | 44 | + | + | + | + | + | + | + | + | + | | | | + | + | | + | | | | DQ6 | 0 | | | | LMX | |
| Reed, Elaine F. PhD | | | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | DQA1*04, DQA1*05 | 0 | | | | LMX | |
| V.Brouard, M.Tonye | 97 | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | 0 | | | | LMX | |
| Vather/JHB, | | | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | + | + | | LMX | |
| Vather/Pinetown, | | | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | + | | | LMX | |
| Xu, Ri | | | + | + | + | + | + | + | + | | | + | + | | + | | + | + | + | | DR5 | | | | | LMX | |

Table 31. Individual laboratory results for Serum #1203 by Luminex - class II

| | | **** Serum 1203 **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------|----------------------|------|------|-----|-----|-----|-----|------|-----|------|-----|------|------|------|------|------|------|-----|------|------|------|------|-----|-----|------|------|------|------|------|-------|-------|-----|--------|-----|-------|--------|-----------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------|-----|-----|
| Investigator | % POS | DR1 | DR10 | DR11 | DR4 | DR7 | DR9 | DQ8 | DR14 | DQ9 | DR53 | DQ7 | DP18 | DP28 | DPw3 | DP14 | DPw2 | DP17 | DQ4 | DP10 | DPw6 | DPw4 | DP20 | DP9 | DQ2 | DP19 | DP23 | DP11 | DPw1 | DP13 | DP402 | DP401 | DQ3 | DR1404 | DR5 | Other | Method | | | | | | |
| Abu Amin, Noryati | Multi | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | + | | | | | | + | | | | | | | | | | | | DR12,DR17 | LMX | | | | |
| Al-Attas, Rabab A. M | Multi | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | LMX | | |
| Arnold, Paula PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | DPA1*01, DPA1*03, DQA1*03, DQA1*05, DQA1*06, DRB1*14:01, DRB1*14:54 | LMX | | | |
| Bengochea, Carrette | 59 | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | | + | | | | | | | | | | | | + | | + | + | | | LMX | | | |
| Cecka, J. Michael P | 86 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | | | | | | | | | | | | | | | LMX | | | |
| Chen, Dong-Feng P | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | DPA1*01, DPA1*03, DQA1*02, DQA1*03, DQA1*04, DQA1*05, DQA1*06 | LMX | | | |
| Daniel, Dolly | 35 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | + | | | | | | | | | | + | + | + | | DPA1*01:03, DPA1*03:01, DQA1*02:01, DQA1*03:01, DQA1*04:01, DQA1*05:01, DQA1*03:02, DQA1*06:01 | LMX | | |
| Danish, Adel | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | | |
| Dunckley, Heather | 97 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | | |
| Eckels/CPMC, Fort, Marylise | NT | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | DQA1*02, DQA1*03, DQA1*04, DQA1*05, DQA1*06 | LMX | | |
| Hahn, Amy B. PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | | |
| Hamdi, Nuha | 86 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | DR17 | LMX | | |
| Hod, Reut | 83 | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | + | | | | | | | + | | | | | | | | | | | | | DR12 | LMX | | |
| Holdsworth, Rhonda | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | DR2, DPA1*01, DPA1*03 | LMX | | |
| Keming, Du | 58 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | |
| Liu, Chang MD, PhD | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | |
| McCluskey, James | 100 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | |
| Pancoska, Carol Ph | 63 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | |
| Permpikul, Vejbaesy | 58 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | |
| Pule, Ziningi | 60 | + | + | + | + | + | + | | + | + | + | + | | | | | | | | + | | | | | | + | | | | | | | | | | | + | + | | | LMX | | |
| Reed, Elaine F. PhD | | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | DRB1*14:01, DPA1*01, DPA1*03 | LMX | |
| V.Brouard, M.Tonye | 17 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | |
| Vather/JHB, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX | |
| Vather/Pinetown, | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | LMX |
| Xu, Ri | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | | | | | | | | + | + | + | | | LMX | |

Table 32. Individual laboratory results for Serum #1204 by Luminex - class II

| **** Serum 1204 **** | | | | | | | |
|----------------------|-------|-----|-----|-----|-----|--------------------------------------------------------|--------|
| Investigator | % POS | DQ2 | DQ7 | DQ9 | DQ8 | Other | Method |
| Abu Amin, Noryati | Multi | + | | | | | LMX |
| Al-Attas, Rabab A. M | 0 | | | | | | LMX |
| Arnold, Paula PhD | 0 | | | | | | LMX |
| Bengochea, Carrette | | | | | | | LMX |
| Cecka, J. Michael P | 0 | | | | | | LMX |
| Chen, Dong-Feng P | | | | | | | LMX |
| Daniel, Dolly | 0 | | | | | | LMX |
| Danish, Adel | | + | + | + | + | | LMX |
| Dunckley, Heather | 0 | + | | | | | LMX |
| Eckels/CPMC, | | | | | | | LMX |
| Fort, Marylise | NT | | | | | | LMX |
| Hahn, Amy B. PhD | | | | | | | LMX |
| Hamdi, Nuha | 0 | + | + | + | + | | LMX |
| Hod, Reut | 0 | | | | | | LMX |
| Holdsworth, Rhonda | | | | | | weak DQA1*05:01, DQA1*05:05, DQA1*05:03, DQA1*06:01 | LMX |
| Keming, Du | | | | | | | LMX |
| Liu, Chang MD, PhD | | | | | | | LMX |
| McCluskey, James | 59 | | + | + | + | | LMX |
| Pancoska, Carol Ph | 0 | | | | | | LMX |
| Permpikul, Vejbaesy | Neg | | | | | | LMX |
| Pule, Ziningi | 0 | | | | | | LMX |
| Reed, Elaine F. PhD | 0 | | | | | | LMX |
| V.Brouard, M.Tonye | 0 | | | | | | LMX |
| Vather/JHB, | | | | | | DQA1*05:05, DQA1*05:03, DQA1*06:01, DQA1*03:02 | LMX |
| Vather/Pinetown, | | | | | | DQA1*05:05, DQA1*05:03 | LMX |
| Xu, Ri | | | | | | | LMX |

Table 33. Individual laboratory results for Serum #1201-1204 by NIH-Extended, Flow Cytometry, C1q, and Other - class II

| Investigator | **** Serum 1201 **** | | | | | | | | | | **** Serum 1202 **** | | **** Serum 1203 **** | | | | | | | | | | **** Serum 1204 **** | | Method | | | |
|---------------------|----------------------|-----|------|------|------|------|------|------|-----|--|----------------------|-------|---------------------------|-------|------|------|------|------|------|------|------|-----|----------------------|--|--------|-------|-------|---------------------------|
| | % POS | DQ7 | DR11 | DR12 | DR13 | DR14 | DR17 | DR18 | DR8 | | | % POS | no specificities assigned | % POS | DP18 | DP20 | DP28 | DPw2 | DPw3 | DPw4 | DPw6 | DR4 | DR53 | | | Other | % POS | no specificities assigned |
| Reed, Elaine F. PhD | 87 | | | | | | | | | | 4 | | | 63 | | | | | | | | | | | | 24 | | Ext |
| Eckels/CPMC | 96 | | | | | | | | | | 3 | | | 97 | | | | | | | | | | | | 0 | | FC |
| Liu, Chang MD, PhD | | + | + | + | + | + | + | + | + | | | | | | + | + | + | + | + | + | + | + | + | | | | | C1q |

Ext - NIH Extended
FC = Flow Cytometry

| Investigator | **** Serum 1201 **** | | | | | | | | | | **** Serum 1202 **** | | **** Serum 1203 **** | | | | | | | | | | **** Serum 1204 **** | | Method | | | |
|---------------------|----------------------|-----|-----|------|------|------|------|------|------|-----|----------------------|-------|---------------------------|-------|-----|-----|-----|-----|-----|------|------|-----|----------------------|-----|--------|-------|-------|---------------------------|
| | % POS | DQ7 | DR1 | DR11 | DR12 | DR13 | DR14 | DR17 | DR18 | DR7 | DR8 | % POS | no specificities assigned | % POS | DQ4 | DQ7 | DQ8 | DQ9 | DR1 | DR10 | DR11 | DR4 | DR7 | DR9 | | Other | % POS | no specificities assigned |
| Liu, Chang MD, PhD | 97 | | | | | | | | | | 0 | | | 100 | | | | | | | | | | | | 0 | | Other - Phenotype Beads |
| Reed, Elaine F. PhD | 77 | + | + | + | + | + | + | + | + | + | 0 | | | 83 | + | + | + | + | + | + | + | + | + | + | DR12 | 0 | | Other - PRA |