|                      | Reference range | P-1  | P-2   | P-3    | P-4    | P-5    | P-6    |
|----------------------|-----------------|------|-------|--------|--------|--------|--------|
| WBC (K cells/µL)     | 6.85-12.84      | 8.85 | 6.92  | 18.6   | 16.1   | 10.09  | 17.27  |
| ANC (K cells/µL)     | 2.22-7.11       | 2.04 L| 3.6   | 14.72 H| 11.4   | 3.36   | 13.3 H |
| ALC (K cells/µL)     | 1.88-5.39       | 5.22 | 2.7   | 2.24   | 0.97 L | 4.46   | 2.26   |
| % Polys              | 16-54           | 23   | 52    | 79     | 71     | 33     | 77     |
| % Lymphs             | 16-68           | 59   | 39    | 12     | 6      | 44     | 13     |
| **IMMUNOGLOBULINS**  |                 |      |       |        |        |        |        |
| IgG                  | 200-1200        | 209  | 285   | 447    | 611    | 588    | 659    |
| IgA                  | 8-90            | 12   | 95    | 19     | 40     | 50     |
| IgM                  | 10-90           | 56   | 86    | 88     | 18     | 92 H   |
| IgE                  | 0-30            |      |       |        |        |        | <5     |
| **LYMOPHOCYTES**     |                 |      |       |        |        |        |        |
| CD3(%)               | 49-84           | 28 L | 70    | 74 (f) | 62     |
| CD3 Abs (cells/µL)   | 2500-5600       | 503 C| 3,216 | 2,075 L| 1,875 L|
| CD3/CD4 (%)          | 31-56           | 19 L | 45    | 31     | 35     |
| CD3/CD4 Abs (cells/ µL)| 1600-4000    | 343 C| 2,102 | 880 L  | 1,051 L|
| CD3/CD8 (%)          | 12-24           | 9 L  | 23    | 41 H   | 26 H   |
| CD3/CD8 Abs (cells/ µL)| 500-1700       | 163 C| 1,098 | 1,167  | 804    |
| CD3-/CD16 or 65 (%)  | 3-15            | 6    | 10    | 9      | 6      |
| CD3-/CD16 or 65 Abs (cells/µL)| 160-1100  | 105 L| 447   | 256    | 194    |
| CD19 (%)             | 11-41           | 64 H | 18    | 16     | 31     |
| CD19 (Abs) (cell/µL) | 430-3000        | 1,105| 800   | 462    | 939    |
| CD4/CD8 ratio        | 1.3-6.3         | 2.1  | 1.91  | 0.75   | 1.31   |
| **T CELL SUBSETS**   |                 |      |       |        |        |        |        |
| TEMRA CD4+CD45RA+CCR7- T cells (%) | 0.1-1.9 | | | | |
| Naive CD4+ CD45RA+ CCR7+ T cells (%) | 76.7-91.4 | | | | |
| Eff Mem CD4+ CD45RA- CCR7- T cells (%) | 1.1-5.3 | | | | |
| Central Mem CD4+ CD45RA- CCR7+ T cells (%) | 6.7-15.6 | | | | |
| TEMRA CD8+CD45RA+CCR7+ T cells (%) | 1.5-22.7 | | | | |
| Naive CD8+ CD45RA+ CCR7+ T cells (%) | 62.1-94 | | | | |
| Eff Mem CD8+ CD45RA- CCR7- T cells (%) | 1.3-19.5 | | | | |
| Central Mem CD8+ CD45RA- CCR7+ T cells (%) | 0.5-5.6 | | | | |
| Naive CD3+CD4+ (%)   | 50-85           |      |       | 75.2 (f)| 78.8 (f)|
| Memory CD3+CD4+ (%)  | 15-50           |      |       | 24.8   | 21.2   |
| Naive CD3+CD8+ (%)   | 50-85           |      |       | 46.1   | 93.9   |
| Memory CD3+CD8+ (%)  | 15-50           |      |       | 53.9   | 6.1    |
| CD31+ Recent Thymic Emigrants (%) | 59.7-82.4 | | | | |
| **B CELL SUBSETS**   |                 |      |       |        |        |        |        |
| Switched mem B cells (IgD- CD27+) (%) | 1.6-7 | | | 2.10 (f)| | |
| Unswitched mem B cells (IgD+ CD27+) (%) | 2.8-7.4 | | | 5.9 | | |
| Naive IgD+ CD27+ B cells (%) | 85.5-93.4 | | | | | 91.2 |
| **MITOGENS**         |                 |      |       |        |        |        |        |
| Con A proliferation (CPM) | 65,699-239,344 | 1452 L| | 60572 L| | |
| PHA proliferation (CPM) | 96,090-358,179 | 166,249| | 7,790 | 77,756 |
| Anti-CD3 proliferation (CPM) | 62,927-217,761 | | | | | |
| T cell mitogen Backgrmd (CPM) | 204-2104 | | | 443 (f) | 219 (f) |
| **NEUTROPHILS**      |                 |      |       |        |        |        |        |
| Neutrophil OI (%)    | >100            |      |       |        |        |        |        |
| % Positive PMNs (%)  | >95             |      |       |        |        |        |        |
| **WBC (K cells/ul)** | **ANC (K cells/ul)** | **ALC (K cells/ul)** | % Polys | % Lymphs |
|----------------------|----------------------|----------------------|---------|----------|
| 6.85-12.84           | 2.22-7.11            | 1.88-5.39            | 16-54   | 16-68    |
| 7.27                 | 5.44                 | 1.29 L               | 75      | 18       |
| 6.85                 | 4.36                 | 1.92 L               | 64      | 28       |
| 6.33 L               | 4.11                 | 1.57 L               | 65      | 25       |
| 7.01                 | 2.66                 | 2.14                 | 38      | 31       |
| 9.74                 | 4.19                 | 3.8                  | 43      | 39       |
| 6.38 L               | 0.82 L               | 4.86                 | 13      | 76       |
| 11.92                |                      | 2.8                  | 57      | 24       |

**IMMUNOGLOBULINS**

| **IgG** | **IgA** | **IgM** | **IgE** |
|---------|---------|---------|---------|
| 200-1200 | 8-90    | 10-90   | 0-30    |
| 509      | 113 H   | 48      | 2       |
| 443      | 72      | 14 L    | 5       |
| 226 L    | 57 H    | 80 H    | 65 H    |
| 313      | 45      | 37      | 2       |
| <75      | 17      | 37      | 27      |
| 245 L    | 38      | 65      | 27      |

**LYMPHOCYTES**

| **CD3(%)** | **CD3 Abs (cells/ul)** | **CD3/CD4 (%)** | **CD3/CD4 Abs (cells/ul)** | **CD3/CD8 (%)** | **CD3/CD8 Abs (cells/ul)** | **CD3-/CD16 or 65 (%)** | **CD3-/CD16 or 65 Abs (cells/ul)** | **CD19 (%)** | **CD19 (Abs) (cell/ul)** |
|------------|------------------------|-----------------|-----------------------------|-----------------|-----------------------------|-------------------------|-------------------------------------|-------------|-------------------------|
| 49-84      | 2500-5600              | 31-56           | 1600-4000                   | 12-24           | 500-1700                    | 3-15                    | 160-1100                            | 11-41       | 430-3000                |
| 74         | 2,462                 | 50              | 1,661                       | 23              | 757                         | 8                       | 271                                 | 17           | 430                    |
| 55         | 1,969                 | 30 L            | 1,050                       | 24              | 854                         | 7                       | 245                                 | 36           | 553                    |
| 45 L       | 776 C                 | 31 L            | 534 C                       | 14 L            | 246 C                       | 10                     | 245                                 | 43           | 1,278                  |
| 44 L       | 732 C                 | 32 L            | 540 C                       | 11 L            | 184 C                       | 32 H                    | 346                                 | 39           | 341                    |
| 59         | 2,574                 | 17 L            | 735 C                       | 42 H            | 1,818 H                     | 8                      | 346                                 | 24           | 32                    |
| 51         | 1,681 L               | 24 L            | 787 C                       | 23              | 752                         | 8                      | 654                                 | 28           | 928                    |

**T CELL SUBSETS**

| **TEMRA CD4+CD45RA+CCR7- T cells (%)** | **Naïve CD4+ CD45RA+ CCR7+ T cells (%)** | **Eff Mem CD4+ CD45RA- CCR7- T cells (%)** | **Central Mem CD4+ CD45RA- CCR7+ T cells (%)** | **TEMRA CD8+ CD45RA+CCR7- T cells (%)** | **Naive CD8+ CD45RA+CCR7+ T cells (%)** | **Eff Mem CD8+ CD45RA-CCR7- T cells (%)** | **Central Mem CD8+ CD45RA-CCR7+ T cells (%)** |
|--------------------------------------|----------------------------------------|-------------------------------------------|-----------------------------------------------|----------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|
| 0.1-1.9                              | 76.7-91.4                               | 1.1-5.3                                    | 6.7-15.6                                       | 1.5-22.7                               | 62.1-94                                  | 1.3-19.5                                  | 0.5-5.5                                      |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |
|                                     |                                        |                                           |                                               |                                       |                                           |                                          |                                             |

**B CELL SUBSETS**

| **Switched mem B cells (IgD- CD27+) (%)** | **Unswitched mem B cells (IgD+ CD27+) (%)** | **Naive IgD+ CD27- B cells (%)** |
|------------------------------------------|---------------------------------------------|---------------------------------|
| 1.6-7                                    | 2.8-7.4                                     | 85.5-93.4                      |

**MITOGENS**

| **Con A proliferation (CPM)** | **PHA proliferation (CPM)** | **Anti-CD3 proliferation (CPM)** | **T cell mitogen Backgrmd (CPM)** |
|-------------------------------|-----------------------------|----------------------------------|------------------------------------|
| 65,699-239,344               | 96,090-358,179             | 62,927-217,761                   | 204-2104                           |
|                               |                            |                                  |                                   |
|                               |                            |                                  |                                   |
|                               |                            |                                  |                                   |

**NEUTROPHILS**

| **Neutrophil OI** | **% Positive PMNs** |
|-------------------|---------------------|
| >100              | 406 (f)             |
| >95               | 100                 |
| Test                                      | Reference range | P-14 | P-15 | P-16 | P-17 | P-18 |
|-------------------------------------------|-----------------|------|------|------|------|------|
| WBC (K cells/μL)                          | 6.85-12.84      | 2.95L | 5.88L | 15.44 | 9.52 | 7.52 |
| ANC (K cells/μL)                          | 2.22-7.11       | 0.94L | 5.3  | 7.78H | 8H   | 4.6  |
| ALC (K cells/μL)                          | 1.88-5.39       | 1.74L | 1.49L | 4.15  | 0.64L| 1.49L|
| % Polys                                   | 16-54           | 32    | 55   | 50   | 84   | 61   |
| % Lymphs                                  | 16-68           | 59    | 55   | 50   | 84   | 61   |

**IMMUNOGLOBULINS**

| IgG            | 200-1200        | 404   | 481   |
|----------------|-----------------|-------|-------|
| IgA            | 8-90            | 38    | 25    |
| IgM            | 10-90           | 65    | 39    |
| IgE            | 0-30            | 13    |       |

**LYMPHOCYTES**

| CD3 (%)        | 49-84           | 81    | 70    | 62   | 45L  | 25L  |
|----------------|-----------------|-------|-------|------|------|------|
| CD3 Abs (cells/μL) | 2500-5600      | 1,649L| 2,221 | 3,179 | 353C | 459C |
| CD3/CD4 (%)     | 31-56           | 59H   | 35    | 44   | 29L  | 17L  |
| CD3/CD4 Abs (cells/ μL) | 1600-4000     | 1,190L| 1,098 | 2,249 | 228 (f)C | 298 (f)C (c) |
| CD3/CD8 (%)     | 12-24           | 23    | 32H   | 17   | 12   | 8L   |
| CD3/CD8 Abs (cells/ μL) | 500-1700       | 466L  | 1,015 | 858  | 93C  | 136C |
| CD3-/CD16 or 65 (%) | 3-15           | 3     | 8     | 21H  | 26H  | 18H  |
| CD3-/CD16 or 65 Abs (cells/μL) | 160-1100   | 59C   | 238   | 1,074| 201  | 324  |
| CD19 (%)        | 11-41           | 15    | 19    | 16   | 25   | 55H  |
| CD19 (Abs) (cell/μL) | 430-3000       | 303L  | 608L  | 847  | 191L | 982  |
| CD4/CD8 ratio   | 1.3-6.3         | 2.55  | 1.08L | 2.62 | 2.46 | 2.19 |
| T-sum (%)       | 0               | 3     | 1     | 4    | 1    |      |

**T CELL SUBSETS**

| TEMRA CD4+CD45RA+CCR7- T cells (%)       | 0.1-1.9        | 0.3 (f) | 1.3 (f) | 1.1 (f) | 3.1 (f) H |
| Naive CD4+ CD45RA+ CCR7+ T cells (%)    | 76.7-91.4      | 93.0H    | 69.4L   | 52.8L   | 67.1L    |
| Eff Mem CD4+ CD45RA- CCR7+ T cells (%)  | 1.1-5.3        | 1.0L     | 10.3H   | 16.0H   | 11.1H    |
| Central Mem CD4+ CD45RA- CCR7+ T cells (%) | 6.7-15.6      | 5.6L     | 19.0H   | 30.0H   | 18.7H    |
| TEMRA CD8+CD45RA+CCR7- T cells (%)      | 1.5-22.7       | 0.5L     | 0.3L    | 3.9    | 3      |
| Naive CD8+ CD45RA+ CCR7+ T cells (%)    | 62.1-94        | 92      | 91.8    | 62.2   | 92     |
| Eff Mem CD8+ CD45RA- CCR7- T cells (%)  | 1.3-19.5       | 0.8L     | 1.2L    | 30.4H  | 2.5    |
| Central Mem CD8+CD45RA- CCR7+ T cells (%) | 0.5-5.6       | 6.7H    | 6.7H    | 3.4    | 2.5    |
| Naive CD3+CD4+ (%)                      | 50-85          | 75.7 (f) |
| Memory CD3+CD4+ (%)                     | 15-50          | 24.3    |
| Naive CD3+CD8+ (%)                      | 50-85          | 79      |
| Memory CD3+CD8+ (%)                     | 15-50          | 21      |
| CD31+ Recent Thymic Emigrants (%)       | 59.7-82.4      | 32.2 (f) L |

**B CELL SUBSETS**

| Switched mem B cells (IgD- CD27+) (%)   | 1.6-7          | 2.60 (f) |
| Unswitched mem B cells (IgD+ CD27+) (%) | 2.8-7.4        | 5.6      |
| Naive IgD+ CD27- B cells (%)            | 85.5-93.4      | 88.8     |

**MITOGENS**

| Con A proliferation (CPM) | 65,699-239,344 | 43174L | 67,760L | 107,238 |
| PHA proliferation (CPM)   | 96,090-358,179 | 339,154 | 167,919 | 110,574 |
| Anti-CD3 proliferation (CPM) | 62,927-217,761 | 26,986 | 110,920 | 584L |
| T cell mitogen Backgrmd (CPM) | 204-2104   | 1,007 (f) | 1,630 (f) | 186 (f) L |

**NEUTROPHILS**

| Neutrophil OI | >100 | 131 (f) |
|---------------|------|--------|
| % Positive PMNs | >95  | 82     |
# Laboratory Results

**WBC (K cells/µL)**

| Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|-----------------|------|------|------|------|------|------|
| 6.85-12.84      | 12.17| 16.41| 28.74H| 12.09| 13.5 |

**ANC (K cells/µL)**

| Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|-----------------|------|------|------|------|------|------|
| 2.22-7.11       | 5.08 | 8.44H| 16.5H| 6.2  | 10.6H|

**ALC (K cells/µL)**

| Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|-----------------|------|------|------|------|------|------|
| 1.88-5.39       | 2.32 | 1.8  | 5.3  | 3.93 | 1.2L |       |

**% Polys**

| Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|-----------------|------|------|------|------|------|------|
| 16-54           | 42   | 51   | 57H  | 51.3 | 79H  |

**% Lymphs**

| Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|-----------------|------|------|------|------|------|------|
| 16-68           | 19   | 11   | 17   | 32   | 9L   |

### IMMUNOGLOBULINS

|            | Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|------------|-----------------|------|------|------|------|------|------|
| IgG        | 200-1200         | 269L | <75  |
| IgA        | 8-90            | 58H  |      |
| IgM        | 10-90           | 76H  |      |
| IgE        | 0-30            |      |      |

### LYMPHOCYTES

|            | Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|------------|-----------------|------|------|------|------|------|------|
| CD3(%)     | 49-84           | 86H  | 73   | 55   | 69   | 77   |
| CD3 Abs (cells/µL) | 2500-5600  | 2,740| 2,546| 1,761L| 2,422L| 1,704L|
| CD3/C4 (%) | 31-56           | 70H  | 43   | 42   | 48   | 56   |
| CD3/C4 Abs (cells/ µL) | 1600-4000     | 2,221| 1,480L| 1,333L| 1,677 | 1,240L |
| CD3/C8 (%) | 12-24           | 16   | 30H  | 14   | 19   | 19   |
| CD3/C8 Abs (cells/ µL) | 500-1700       | 512  | 1,054| 439L | 663  | 416L |
| CD3-/CD16 or 65 (%) | 3-15          | 3L   | 16   | 7    | 6    | 13   |
| CD3-/CD16 or 65 Abs (cells/µL) | 160-1100  | 109L | 545  | 211  | 227  | 280  |
| CD19 (%)   | 11-41           | 7    | 10   | 34H  | 23   | 9L   |
| CD19 (Abs) (cell/µL) | 430-3000          | 229L | 345  | 1,092| 810  | 209L |
| CD4/CD8 ratio | 1.3-6.3       | 4.34 | 1.4  | 3.03 | 2.53 | 2.98 |

### T CELL SUBSETS

|            | Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|------------|-----------------|------|------|------|------|------|------|
| TEMRA CD4+CD45RA+CCR7- T cells (%) | 0.1-1.9 | 2.6(f)H | 74.1L | 2.5(f)H | 6.2(f)H |
| Naive CD4+ CD45RA+ CCR7+ T cells (%) | 76.7-91.4 | 84   | 10.0H | 73.1L | 85.7 |
| Eff Mem CD4+ CD45RA- CCR7- T cells (%) | 1.1-5.3 | 6.8H | 15.2  | 9.6H  | 3.9  |
| Central Mem CD4+ CD45RA- CCR7+ T cells (%) | 6.7-15.6 | 6.6L | 0.8L  | 14.8  | 4.3L |
| TEMRA CD8+CD45RA+CCR7- T cells (%) | 1.5-22.7 | 1.3L | 94.3H | 1.4L  | 0.5L |
| Naive CD8+ CD45RA+CCR7+ T cells (%) | 62.1-94 | 88.2 | 0.6L  | 82.8  | 96.6H |
| Eff Mem CD8+ CD45RA- CCR7- T cells (%) | 1.3-19.5 | 3.1 | 4.2   | 1.7   | 1.5  |
| Central Mem CD8+ CD45RA- CCR7+ T cells (%) | 0.5-5.6 | 7.3H | 14.0H | 1.3   |      |
| Naive CD3+CD4+ (%) | 50-85   |      |      |      |      |      |
| Memory CD3+CD4+ (%) | 15-50   |      |      |      |      |      |
| Naive CD3+CD8+ (%) | 50-85   |      |      |      |      |      |
| Memory CD3+CD8+ (%) | 15-50   |      |      |      |      |      |
| CD31+ Recent Thymic Emigrants (%) | 59.7-82.4 |      |      |      |      |      |

### B CELL SUBSETS

|            | Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|------------|-----------------|------|------|------|------|------|------|
| Switched mem B cells (IgD- CD27+) (%) | 1.6-7 |      |      |      |      |      |      |
| Unswitched mem B cells (IgD+ CD27+) (%) | 2.8-7.4 |      |      |      |      |      |      |
| Naive IgD+ CD27+ B cells (%) | 85.5-93.4 |      |      |      |      |      |      |

### MITOGENS

|            | Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|------------|-----------------|------|------|------|------|------|------|
| Con A proliferation (CPM) | 65,699-239,344 | 281,750H |      |      |      |      |
| PHA proliferation (CPM) | 96,090-358,179 | 293,920 |      |      |      |      |
| Anti-CD3 proliferation (CPM) | 62,927-217,761 | 74,756 |      |      |      |      |
| T cell mitogen Backgrd (CPM) | 204-2104 | 383(f) |      |      |      |      |

### NEUTROPHILS

|            | Reference range | P-19 | P-20 | P-21 | P-22 | P-23 | P-24 |
|------------|-----------------|------|------|------|------|------|------|
| Neutrophil OI | >100          | 164(f) |      |      |      |      |      |
| % Positive PMNs | >95           |      |      |      |      |      | 63   |
| Test                                    | Reference range | P-25       | P-26       | P-27       | P-28       | P-29       |
|-----------------------------------------|-----------------|------------|------------|------------|------------|------------|
| WBC (K cells/μL)                        | 6.85-12.84      | 9.26       | 7.85 L     | 9.69       | 12.07      | 22.53 H    |
| ANC (K cells/μL)                        | 2.22-7.11       | 3.94       | 4.86       | 5.65       | 8.53 H     | 7.98 H     |
| ALC (K cells/μL)                        | 1.88-5.39       | 3.03       | 0.49 L     | 1.92       | 2.12       | 7.98 H     |
| % Polys                                 | 16-54           | 42.5       | 61.9       | 58.4 H     | 70.7 H     | 35.4       |
| % Lymphs                                | 16-68           | 33         | 6 L        | 19.8       | 17.6       | 35         |

**IMMUNOGLOBULINS**

| Test  | Reference range | P-25       | P-26       | P-27       | P-28       | P-29       |
|-------|-----------------|------------|------------|------------|------------|------------|
| IgG   | 200-1200         | 96 L       | 368        | 117 L      |            |            |
| IgA   | 8-90            |            |            |            | 25         |            |
| IgM   | 10-90           |            |            |            | 22         |            |
| IgE   | 0-30            |            |            |            | 5          |            |

**LYMPHOCYTES**

| Test                                    | Reference range | P-25       | P-26       | P-27       | P-28       | P-29       |
|-----------------------------------------|-----------------|------------|------------|------------|------------|------------|
| CD3 (%)                                  | 49-84           | 49         | 35 L       | 56         | 68         | 60         |
| CD3 Abs (cells/μL)                       | 2500-5600       | 1,890 L    | 205 L      | 1,021 L    | 2,637      | 2,714      |
| CD3/C4D (%)                              | 31-56           | 32 L       | 26 L       | 35         | 42         | 50         |
| CD3/CD4 Abs (cells/ μL)                  | 1600-4000       | 1,238 L    | 151 (f) C  | 638 L      | 1,614      | 2,243      |
| CD3/CD8 (%)                              | 12-24           | 17         | 9 L        | 18         | 26 H       | 10 L       |
| CD3/-CD8 Abs (cells/ μL)                 | 500-1700        | 646        | 53 L       | 331 L      | 989        | 453 L      |
| CD3/-CD16 or 65 (%)                      | 3-15            | 7          | 28 H       | 14         | 6          | 5          |
| CD3/-CD16 or 65 Abs (cells/μL)           | 160-1100        | 269        | 167        | 259        | 225        | 239        |
| CD19 (%)                                 | 11-41           | 41 H       | 35 H       | 26         | 25         | 33 H       |
| CD19 (Abs) (cell/μL)                     | 430-3000        | 1,584      | 203 L      | 474        | 960        | 1,468      |
| CD4/CD8 ratio                            | 1.3-6.3         | 1.92       | 2.83       | 1.93       | 1.63       | 4.95       |
| T-sum (%)                                | 0              | 0          | 3          | 1          | 0          |            |

**T CELL SUBSETS**

| Test                                    | Reference range | P-25       | P-26       | P-27       | P-28       | P-29       |
|-----------------------------------------|-----------------|------------|------------|------------|------------|------------|
| TEMRA CD4+CD45RA+CCR7- T cells (%)      | 0.1-1.9         | 2.6 (f) H  | 2.4 (f) H  | 1.8 (f)    | 0.8 (f)    | 0.5 (f)    |
| Naive CD4+ CD45RA+ CCR7+ T cells (%)    | 76.7-91.4       | 82.4       | 53.8 L     | 70.9 L     | 82.9       | 64.0 L     |
| Eff Mem CD4+ CD45RA- CCR7- T cells (%)  | 1.1-5.3         | 6.2 H      | 24.5 H     | 9.4 H      | 3.7        | 11.1 H     |
| Central Mem CD4+ CD45RA+ CCR7+ T cells (%) | 6.7-15.6     | 8.7        | 19.2 H     | 18.0 H     | 12.6       | 24.4 H     |
| TEMRA CD8+CD45RA+CCR7- T cells (%)      | 1.5-22.7        | 1.5        | 4.2        | 1.2 L      | 0.5 L      | 0.8 L      |
| Naive CD8+ CD45RA+ CCR7+ T cells (%)    | 62.1-94         | 85.3       | 83.5       | 92.3       | 93.7       | 78.3       |
| Eff Mem CD8+ CD45RA- CCR7- T cells (%)  | 1.3-19.5        | 3.1        | 9.1        | 4          | 0.8 L      | 2.4        |
| Central Mem CD8+CD45RA-CCR7+ T cells (%) | 0.5-5.6        | 10.0 H     | 3.2        | 2.6        | 5.1        | 18.5 H     |
| Naive CD3+CD4+ (%)                      | 50-85           |            |            |            |            |            |
| Memory CD3+CD4+ (%)                     | 15-50           |            |            |            |            |            |
| Naive CD3+CD8+ (%)                      | 50-85           |            |            |            |            |            |
| Memory CD3+CD8+ (%)                     | 15-50           |            |            |            |            |            |
| CD31+ Recent Thymic Emigrants (%)       | 59.7-82.4       |            |            |            |            | 33.2 (f) L |

**B CELL SUBSETS**

| Test                                    | Reference range | P-25       | P-26       | P-27       | P-28       | P-29       |
|-----------------------------------------|-----------------|------------|------------|------------|------------|------------|
| Switched mem B cells (IgD- CD27+) (%)   | 1.6-7           |            |            |            |            | 1.20 (f) L |
| Unswitched mem B cells (IgD+ CD27+) (%) | 2.8-7.4         |            |            |            |            | 2.8        |
| Naive IgD+ CD27- B cells (%)            | 85.5-93.4       |            |            |            |            | 95.60 H    |

**MITOGENS**

| Test                                    | Reference range | P-25       | P-26       | P-27       | P-28       | P-29       |
|-----------------------------------------|-----------------|------------|------------|------------|------------|------------|
| Con A proliferation (CPM)               | 65,699-239,344  | 184,752    |            |            |            |            |
| PHA proliferation (CPM)                 | 96,090-358,179  | 210,614    |            |            |            |            |
| Anti-CD3 proliferation (CPM)            | 62,927-217,761  | 6,093 L    |            |            |            |            |
| T cell mitogen Backgrd (CPM)            | 204-2104        | 319 (f)    |            |            |            |            |

**NEUTROPHILS**

| Test  | Reference range | P-25       | P-26       | P-27       | P-28       | P-29       |
|-------|-----------------|------------|------------|------------|------------|------------|
| Neutrophil OI | >100           |            |            |            |            | 206 (f)    |
| % Positive PMNs | >95            |            |            |            |            | 99         |