

# Difftrol

## Hematology Reference Control

9755 Research Drive  
Irvine, California 92618  
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(888) 903-5001  
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Lot No.: **PX415**  
Exp. Date: **2019-03-05** (Y/M/D)

|                                | PARAMETERS | UNITS               | LOW     |        | NORMAL  |        | HIGH    |        |
|--------------------------------|------------|---------------------|---------|--------|---------|--------|---------|--------|
|                                |            |                     | Lot No. | PX415L | Lot No. | PX415N | Lot No. | PX415H |
| PENTRA 60 (OT)<br>PENTRA 60 C+ | WBC        | 10 <sup>9</sup> /l  | 2.5     | ± 0.4  | 7.5     | ± 1.0  | 17.8    | ± 2.2  |
|                                | RBC        | 10 <sup>12</sup> /l | 2.44    | ± 0.16 | 4.62    | ± 0.20 | 5.13    | ± 0.25 |
|                                | HGB        | g/dl                | 7.0     | ± 0.4  | 13.7    | ± 0.5  | 15.9    | ± 0.6  |
|                                | HCT        | %                   | 19.8    | ± 1.5  | 37.4    | ± 2.0  | 44.6    | ± 2.5  |
|                                | MCV        | µm <sup>3</sup> /fl | 81      | ± 5    | 81      | ± 5    | 87      | ± 5    |
|                                | MCH        | pg                  | 28.7    | ± 2.0  | 29.7    | ± 2.0  | 31.0    | ± 2.5  |
|                                | MCHC       | g/dl                | 35.4    | ± 3.0  | 36.6    | ± 3.0  | 35.6    | ± 3.0  |
|                                | RDW        | %                   | 13.0    | ± 4.0  | 12.8    | ± 4.0  | 12.5    | ± 4.0  |
|                                | PLT        | 10 <sup>9</sup> /l  | 70      | ± 20   | 250     | ± 30   | 500     | ± 50   |
|                                | MPV        | µm <sup>3</sup> /fl | 9.1     | ± 2.0  | 9.3     | ± 2.0  | 9.5     | ± 2.0  |
|                                | LYM        | %                   | 29.0    | ± 12.0 | 30.5    | ± 8.0  | 15.0    | ± 8.0  |
|                                | MON        | %                   | 2.5     | ± 2.5  | 3.2     | ± 3.0  | 3.6     | ± 3.0  |
|                                | NEU        | %                   | 57.3    | ± 10.0 | 58.9    | ± 10.0 | 72.2    | ± 10.0 |
|                                | EOS        | %                   | 7.7     | ± 7.4  | 3.7     | ± 3.5  | 4.7     | ± 4.5  |
|                                | BAS        | %                   | 3.5     | ± 3.4  | 3.7     | ± 3.5  | 4.5     | ± 4.3  |
|                                | LYM        | ≠                   | 0.73    | ± 0.33 | 2.29    | ± 0.70 | 2.67    | ± 1.50 |
|                                | MON        | ≠                   | 0.06    | ± 0.06 | 0.24    | ± 0.22 | 0.64    | ± 0.53 |
|                                | NEU        | ≠                   | 1.43    | ± 0.35 | 4.42    | ± 0.90 | 12.85   | ± 1.90 |
| EOS                            | ≠          | 0.19                | ± 0.18  | 0.28   | ± 0.26  | 0.84   | ± 0.80  |        |
| BAS                            | ≠          | 0.09                | ± 0.08  | 0.28   | ± 0.26  | 0.80   | ± 0.77  |        |
| PENTRA 80<br>PENTRA XL80       | WBC        | 10 <sup>9</sup> /l  | 2.4     | ± 0.4  | 7.4     | ± 1.0  | 17.5    | ± 2.2  |
|                                | RBC        | 10 <sup>12</sup> /l | 2.37    | ± 0.16 | 4.58    | ± 0.20 | 5.13    | ± 0.25 |
|                                | HGB        | g/dl                | 6.9     | ± 0.4  | 13.7    | ± 0.5  | 16.0    | ± 0.6  |
|                                | HCT        | %                   | 19.9    | ± 1.5  | 37.6    | ± 2.0  | 44.6    | ± 2.5  |
|                                | MCV        | µm <sup>3</sup> /fl | 84      | ± 5    | 82      | ± 5    | 87      | ± 5    |
|                                | MCH        | pg                  | 29.1    | ± 2.0  | 29.9    | ± 2.0  | 31.2    | ± 2.5  |
|                                | MCHC       | g/dl                | 34.7    | ± 3.0  | 36.5    | ± 3.0  | 35.8    | ± 3.0  |
|                                | RDW        | %                   | 13.0    | ± 4.0  | 13.4    | ± 4.0  | 13.4    | ± 4.0  |
|                                | PLT        | 10 <sup>9</sup> /l  | 65      | ± 20   | 250     | ± 30   | 505     | ± 50   |
|                                | MPV        | µm <sup>3</sup> /fl | 9.2     | ± 2.0  | 9.4     | ± 2.0  | 9.7     | ± 2.0  |
|                                | LYM        | %                   | 28.0    | ± 12.0 | 30.3    | ± 8.0  | 14.5    | ± 8.0  |
|                                | MON        | %                   | 3.6     | ± 3.6  | 3.7     | ± 3.7  | 4.0     | ± 4.0  |
|                                | NEU        | %                   | 56.9    | ± 10.0 | 58.5    | ± 10.0 | 72.1    | ± 10.0 |
|                                | EOS        | %                   | 8.1     | ± 8.1  | 3.9     | ± 3.9  | 4.9     | ± 4.9  |
|                                | BAS        | %                   | 3.4     | ± 3.4  | 3.6     | ± 3.6  | 4.5     | ± 4.5  |
|                                | LYM        | ≠                   | 0.67    | ± 0.33 | 2.24    | ± 0.70 | 2.54    | ± 1.50 |
|                                | MON        | ≠                   | 0.09    | ± 0.09 | 0.27    | ± 0.27 | 0.70    | ± 0.70 |
|                                | NEU        | ≠                   | 1.37    | ± 0.35 | 4.33    | ± 0.90 | 12.62   | ± 1.90 |
| EOS                            | ≠          | 0.19                | ± 0.19  | 0.29   | ± 0.29  | 0.86   | ± 0.86  |        |
| BAS                            | ≠          | 0.08                | ± 0.08  | 0.27   | ± 0.27  | 0.79   | ± 0.79  |        |
| PENTRA XLR                     | WBC        | 10 <sup>9</sup> /l  | 2.4     | ± 0.4  | 7.4     | ± 1.0  | 17.5    | ± 2.2  |
|                                | RBC        | 10 <sup>12</sup> /l | 2.37    | ± 0.16 | 4.58    | ± 0.20 | 5.13    | ± 0.25 |
|                                | HGB        | g/dl                | 6.9     | ± 0.4  | 13.7    | ± 0.5  | 16.0    | ± 0.6  |
|                                | HCT        | %                   | 19.9    | ± 1.5  | 37.6    | ± 2.0  | 44.6    | ± 2.5  |
|                                | MCV        | µm <sup>3</sup> /fl | 84      | ± 5    | 82      | ± 5    | 87      | ± 5    |
|                                | MCH        | pg                  | 29.1    | ± 2.0  | 29.9    | ± 2.0  | 31.2    | ± 2.5  |
|                                | MCHC       | g/dl                | 34.7    | ± 3.0  | 36.5    | ± 3.0  | 35.8    | ± 3.0  |
|                                | RDW        | %                   | 12.0    | ± 4.0  | 12.3    | ± 4.0  | 12.3    | ± 4.0  |
|                                | PLT        | 10 <sup>9</sup> /l  | 65      | ± 20   | 250     | ± 30   | 505     | ± 50   |
|                                | MPV        | µm <sup>3</sup> /fl | 9.2     | ± 2.0  | 9.4     | ± 2.0  | 9.7     | ± 2.0  |
|                                | NEU        | ≠                   | 1.37    | ± 0.35 | 4.33    | ± 0.90 | 12.62   | ± 1.90 |
|                                | NEU        | %                   | 56.9    | ± 10.0 | 58.5    | ± 10.0 | 72.1    | ± 10.0 |
|                                | LYM        | ≠                   | 0.67    | ± 0.33 | 2.24    | ± 0.70 | 2.54    | ± 1.50 |
|                                | LYM        | %                   | 28.0    | ± 12.0 | 30.3    | ± 8.0  | 14.5    | ± 8.0  |
|                                | MON        | ≠                   | 0.09    | ± 0.09 | 0.27    | ± 0.27 | 0.70    | ± 0.70 |
|                                | MON        | %                   | 3.6     | ± 3.6  | 3.7     | ± 3.7  | 4.0     | ± 4.0  |
|                                | EOS        | ≠                   | 0.19    | ± 0.19 | 0.29    | ± 0.29 | 0.86    | ± 0.86 |
|                                | EOS        | %                   | 8.1     | ± 8.1  | 3.9     | ± 3.9  | 4.9     | ± 4.9  |
| BAS                            | ≠          | 0.08                | ± 0.08  | 0.27   | ± 0.27  | 0.79   | ± 0.79  |        |
| BAS                            | %          | 3.4                 | ± 3.4   | 3.6    | ± 3.6   | 4.5    | ± 4.5   |        |

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|                    | PARAMETERS | UNITS               | LOW     |             | NORMAL  |             | HIGH    |             |
|--------------------|------------|---------------------|---------|-------------|---------|-------------|---------|-------------|
|                    |            |                     | Lot No. | PX415L      | Lot No. | PX415N      | Lot No. | PX415H      |
| PENTRA 120         | WBC        | 10 <sup>9</sup> /l  |         | 2.5 ± 0.4   |         | 7.7 ± 1.0   |         | 19.1 ± 2.2  |
|                    | RBC        | 10 <sup>12</sup> /l |         | 2.41 ± 0.16 |         | 4.63 ± 0.20 |         | 5.23 ± 0.25 |
|                    | HGB        | g/dl                |         | 7.0 ± 0.4   |         | 13.6 ± 0.5  |         | 15.9 ± 0.6  |
|                    | HCT        | %                   |         | 20.2 ± 1.5  |         | 38.0 ± 2.0  |         | 45.5 ± 2.5  |
|                    | MCV        | µm <sup>3</sup> /fl |         | 84 ± 5      |         | 82 ± 5      |         | 87 ± 5      |
|                    | MCH        | pg                  |         | 29.0 ± 2.0  |         | 29.4 ± 2.0  |         | 30.4 ± 2.5  |
|                    | MCHC       | g/dl                |         | 34.6 ± 3.0  |         | 35.8 ± 3.0  |         | 34.9 ± 3.0  |
|                    | RDW        | %                   |         | 15.2 ± 4.0  |         | 16.0 ± 4.0  |         | 15.0 ± 4.0  |
|                    | PLT        | 10 <sup>9</sup> /l  |         | 70 ± 20     |         | 255 ± 30    |         | 500 ± 50    |
|                    | MPV        | µm <sup>3</sup> /fl |         | 9.0 ± 2.0   |         | 9.3 ± 2.0   |         | 9.6 ± 2.0   |
|                    | NEU        | ≠                   |         | 1.43 ± 0.35 |         | 4.50 ± 0.90 |         | 13.9 ± 1.90 |
|                    | NEU        | %                   |         | 57.0 ± 10.0 |         | 58.4 ± 10.0 |         | 73.0 ± 10.0 |
|                    | LYM        | ≠                   |         | 0.72 ± 0.33 |         | 2.39 ± 0.70 |         | 2.69 ± 1.50 |
|                    | LYM        | %                   |         | 28.7 ± 12.0 |         | 31.0 ± 8.0  |         | 14.1 ± 8.0  |
|                    | MON        | ≠                   |         | 0.09 ± 0.09 |         | 0.28 ± 0.28 |         | 0.82 ± 0.80 |
|                    | MON        | %                   |         | 3.5 ± 3.5   |         | 3.7 ± 3.7   |         | 4.3 ± 4.2   |
|                    | EOS        | ≠                   |         | 0.20 ± 0.20 |         | 0.26 ± 0.26 |         | 0.97 ± 0.97 |
|                    | EOS        | %                   |         | 7.8 ± 7.8   |         | 3.4 ± 3.4   |         | 5.1 ± 5.1   |
|                    | BAS        | ≠                   |         | 0.08 ± 0.08 |         | 0.27 ± 0.27 |         | 0.67 ± 0.67 |
|                    | BAS        | %                   |         | 3.0 ± 3.0   |         | 3.5 ± 3.5   |         | 3.5 ± 3.5   |
| PENTRA DX/DF 120   | WBC        | 10 <sup>9</sup> /l  |         | 2.5 ± 0.4   |         | 7.7 ± 1.0   |         | 19.1 ± 2.2  |
|                    | RBC        | 10 <sup>12</sup> /l |         | 2.41 ± 0.16 |         | 4.63 ± 0.20 |         | 5.23 ± 0.25 |
|                    | HGB        | g/dl                |         | 7.0 ± 0.4   |         | 13.6 ± 0.5  |         | 15.9 ± 0.6  |
|                    | HCT        | %                   |         | 20.2 ± 1.5  |         | 38.0 ± 2.0  |         | 45.5 ± 2.5  |
|                    | MCV        | µm <sup>3</sup> /fl |         | 84 ± 5      |         | 82 ± 5      |         | 87 ± 5      |
|                    | MCH        | pg                  |         | 29.0 ± 2.0  |         | 29.4 ± 2.0  |         | 30.4 ± 2.5  |
|                    | MCHC       | g/dl                |         | 34.6 ± 3.0  |         | 35.8 ± 3.0  |         | 34.9 ± 3.0  |
|                    | RDW        | %                   |         | 15.2 ± 4.0  |         | 16.0 ± 4.0  |         | 15.0 ± 4.0  |
|                    | PLT        | 10 <sup>9</sup> /l  |         | 70 ± 20     |         | 255 ± 30    |         | 500 ± 50    |
|                    | MPV        | µm <sup>3</sup> /fl |         | 9.0 ± 2.0   |         | 9.3 ± 2.0   |         | 9.6 ± 2.0   |
|                    | NEU        | ≠                   |         | 1.48 ± 0.35 |         | 4.62 ± 0.90 |         | 14.1 ± 1.90 |
|                    | NEU        | %                   |         | 59.0 ± 10.0 |         | 60.0 ± 10.0 |         | 74.0 ± 10.0 |
|                    | LYM        | ≠                   |         | 0.66 ± 0.33 |         | 2.24 ± 0.70 |         | 2.52 ± 1.50 |
|                    | LYM        | %                   |         | 26.2 ± 12.0 |         | 29.1 ± 8.0  |         | 13.2 ± 8.0  |
|                    | MON        | ≠                   |         | 0.09 ± 0.09 |         | 0.29 ± 0.28 |         | 0.80 ± 0.80 |
|                    | MON        | %                   |         | 3.5 ± 3.5   |         | 3.8 ± 3.7   |         | 4.2 ± 4.2   |
|                    | EOS        | ≠                   |         | 0.21 ± 0.20 |         | 0.28 ± 0.26 |         | 0.97 ± 0.97 |
|                    | EOS        | %                   |         | 8.3 ± 7.8   |         | 3.6 ± 3.4   |         | 5.1 ± 5.1   |
|                    | BAS        | ≠                   |         | 0.08 ± 0.08 |         | 0.27 ± 0.27 |         | 0.67 ± 0.67 |
|                    | BAS        | %                   |         | 3.0 ± 3.0   |         | 3.5 ± 3.5   |         | 3.5 ± 3.5   |
| PENTRA DX/DF NEXUS | WBC        | 10 <sup>9</sup> /l  |         | 2.5 ± 0.4   |         | 7.7 ± 1.0   |         | 19.1 ± 2.2  |
|                    | RBC        | 10 <sup>12</sup> /l |         | 2.41 ± 0.16 |         | 4.63 ± 0.20 |         | 5.23 ± 0.25 |
|                    | HGB        | g/dl                |         | 7.0 ± 0.4   |         | 13.6 ± 0.5  |         | 15.9 ± 0.6  |
|                    | HCT        | %                   |         | 20.2 ± 1.5  |         | 38.0 ± 2.0  |         | 45.5 ± 2.5  |
|                    | MCV        | µm <sup>3</sup> /fl |         | 84 ± 5      |         | 82 ± 5      |         | 87 ± 5      |
|                    | MCH        | pg                  |         | 29.0 ± 2.0  |         | 29.4 ± 2.0  |         | 30.4 ± 2.5  |
|                    | MCHC       | g/dl                |         | 34.6 ± 3.0  |         | 35.8 ± 3.0  |         | 34.9 ± 3.0  |
|                    | RDW        | %                   |         | 15.2 ± 4.0  |         | 16.0 ± 4.0  |         | 15.0 ± 4.0  |
|                    | PLT        | 10 <sup>9</sup> /l  |         | 70 ± 20     |         | 255 ± 30    |         | 500 ± 50    |
|                    | MPV        | µm <sup>3</sup> /fl |         | 9.0 ± 2.0   |         | 9.3 ± 2.0   |         | 9.6 ± 2.0   |
|                    | NEU        | ≠                   |         | 1.48 ± 0.35 |         | 4.62 ± 0.90 |         | 14.1 ± 1.90 |
|                    | NEU        | %                   |         | 59.0 ± 10.0 |         | 60.0 ± 10.0 |         | 74.0 ± 10.0 |
|                    | LYM        | ≠                   |         | 0.66 ± 0.33 |         | 2.24 ± 0.70 |         | 2.52 ± 1.50 |
|                    | LYM        | %                   |         | 26.2 ± 12.0 |         | 29.1 ± 8.0  |         | 13.2 ± 8.0  |
|                    | MON        | ≠                   |         | 0.09 ± 0.09 |         | 0.29 ± 0.28 |         | 0.80 ± 0.80 |
|                    | MON        | %                   |         | 3.5 ± 3.5   |         | 3.8 ± 3.7   |         | 4.2 ± 4.2   |
|                    | EOS        | ≠                   |         | 0.21 ± 0.20 |         | 0.28 ± 0.26 |         | 0.97 ± 0.97 |
|                    | EOS        | %                   |         | 8.3 ± 7.8   |         | 3.6 ± 3.4   |         | 5.1 ± 5.1   |
|                    | BAS        | ≠                   |         | 0.08 ± 0.08 |         | 0.27 ± 0.27 |         | 0.67 ± 0.67 |
|                    | BAS        | %                   |         | 3.0 ± 3.0   |         | 3.5 ± 3.5   |         | 3.5 ± 3.5   |

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