



|         |   |   |   |
|---------|---|---|---|
| CONTROL | L | N | H |
|---------|---|---|---|

**IMPORTANT:** The barcode is for use only on the CELL-DYN Ruby. Refer to the appropriate System Operator's Manual for proper use of CELL-DYN Calibrator and Control Products.

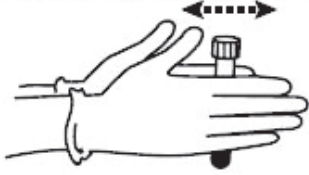
**IMPORTANT: Mixing and Handling**

1. Remove a vial of the control from the refrigerator and warm to room temperature (18° to 30° C) for 15 minutes before use.

2. To mix: (**Do NOT mix mechanically or vortex.**)

For a video demonstration, visit [www.corelaboratory.abbott](http://www.corelaboratory.abbott) and navigate to the Customer Portal → Technical Library → Other Reference Documents → Hematology Aids.

a. Hold the vial vertically and roll each vial between the palms of the hands for 15-20 seconds.



b. Continue to mix by holding the vial by the ends between the thumb and finger, rapidly inverting the vial 20 times end-over-end using a very quick turning motion of the wrist.



c. Analyze immediately after mixing. Subsequent analyses during this test period may be performed by inverting the vial 5 times prior to instrument analysis.

d. Steps a-c must be repeated upon removing the sample from the refrigerator for the entire open-vial time period regardless of the method of analysis (open tube, cap piercing, auto sample or manual sample).

3. Refer to the appropriate CELL-DYN System Operator's Manual for information about analyzing control specimens.

4. FOR AUTOMATED SAMPLING OR MANUAL CLOSED SAMPLING (CS):

- Refer to the appropriate CELL-DYN Operator's Manual. Remove the vial from the sample handler immediately after sampling.

FOR OPEN-VIAL SAMPLING:

- Aspirate a sample from the vial.
- Carefully wipe the vial rim and cap with a lint-free tissue.
- Replace the cap, ensuring it is on tight.

After sampling, return vial to refrigerator for maximum open-vial stability. If run in the open mode, wipe the threads of both vial and cap before replacing cap and returning to refrigerator.



2022-02-11

8 Consecutive Day Open-Vial Stability

|                         |                              | CONTROL L   |                | CONTROL N   |                | CONTROL H   |                |
|-------------------------|------------------------------|-------------|----------------|-------------|----------------|-------------|----------------|
|                         |                              | LOT L1333   |                | LOT N1333   |                | LOT H1333   |                |
| SYSTEM                  | PARAMETER                    | ASSAY VALUE | ± MEAN RANGE * | ASSAY VALUE | ± MEAN RANGE * | ASSAY VALUE | ± MEAN RANGE * |
| CELL-DYN 3700<br>SYSTEM | WOC 10 <sup>9</sup> /L       | 4.0         | 0.4            | 7.3         | 0.7            | 15.4        | 2.5            |
|                         | WIC 10 <sup>9</sup> /L       | 4.0         | 0.5            | 7.5         | 1.0            | 15.7        | 3.0            |
|                         | WBC 10 <sup>9</sup> /L       | 4.0         | 0.4            | 7.3         | 0.7            | 15.4        | 2.5            |
|                         | NEU 10 <sup>9</sup> /L       | 2.3         | 0.3            | 4.1         | 0.8            | 8.8         | 2.0            |
|                         | NEU %                        | 56.8        | 8.0            | 56.8        | 8.0            | 57.4        | 10.0           |
|                         | LYM 10 <sup>9</sup> /L       | 1.1         | 0.3            | 2.1         | 0.8            | 4.3         | 2.0            |
|                         | LYM %                        | 28.6        | 9.0            | 28.5        | 9.0            | 28.1        | 10.0           |
|                         | MONO 10 <sup>9</sup> /L      | 0.4         | 0.2            | 0.7         | 0.4            | 1.5         | 0.6            |
|                         | MONO %                       | 10.1        | 5.0            | 10.2        | 5.0            | 9.8         | 3.0            |
|                         | EOS 10 <sup>9</sup> /L       | 0.1         | 0.1            | 0.2         | 0.2            | 0.4         | 0.2            |
|                         | EOS %                        | 3.0         | 3.0            | 2.4         | 2.0            | 2.5         | 1.0            |
|                         | BASO 10 <sup>9</sup> /L      | 0.1         | 0.1            | 0.2         | 0.2            | 0.6         | 0.6            |
|                         | BASO %                       | 3.0         | 3.0            | 3.0         | 3.0            | 3.0         | 3.0            |
|                         | RBC 10 <sup>12</sup> /L      | 2.97        | 0.15           | 4.34        | 0.20           | 5.26        | 0.30           |
|                         | HGB g/dL                     | 7.5         | 0.4            | 12.3        | 0.6            | 16.4        | 0.8            |
|                         | HCT %                        | 23.2        | 1.5            | 37.9        | 2.5            | 49.8        | 3.5            |
|                         | MCV fL                       | 78.1        | 4.0            | 87.4        | 4.0            | 94.7        | 5.0            |
| MCH pg                  | 25.3                         | 2.0         | 28.3           | 2.0         | 31.2           | 2.0         |                |
| MCHC g/dL               | 32.3                         | 2.3         | 32.5           | 3.0         | 32.9           | 2.3         |                |
| RDW %                   | 20.4                         | 2.5         | 18.8           | 2.5         | 17.0           | 2.5         |                |
| PLT 10 <sup>9</sup> /L  | 79                           | 20          | 227            | 30          | 528            | 60          |                |
| MPV fL                  | 8.8                          | 3.0         | 8.2            | 3.0         | 8.1            | 3.0         |                |
| CELL-DYN Ruby<br>SYSTEM | WBC (WOC) 10 <sup>9</sup> /L | 4.0         | 0.4            | 7.5         | 0.7            | 16.0        | 2.5            |
|                         | WBC (NOC) 10 <sup>9</sup> /L | 4.0         | 0.4            | 7.6         | 1.0            | 16.0        | 2.5            |
|                         | NEU 10 <sup>9</sup> /L       | 2.3         | 0.3            | 4.3         | 0.8            | 9.2         | 2.0            |
|                         | NEU %                        | 56.7        | 8.0            | 56.9        | 8.0            | 57.5        | 10.0           |
|                         | LYM 10 <sup>9</sup> /L       | 1.1         | 0.3            | 2.1         | 0.8            | 4.4         | 2.0            |
|                         | LYM %                        | 28.1        | 9.0            | 28.2        | 9.0            | 27.8        | 10.0           |
|                         | MONO 10 <sup>9</sup> /L      | 0.4         | 0.2            | 0.7         | 0.4            | 1.5         | 0.6            |
|                         | MONO %                       | 9.6         | 5.0            | 9.5         | 5.0            | 9.3         | 3.0            |
|                         | EOS 10 <sup>9</sup> /L       | 0.1         | 0.1            | 0.2         | 0.2            | 0.4         | 0.2            |
|                         | EOS %                        | 3.0         | 3.0            | 2.4         | 2.0            | 2.4         | 1.0            |
|                         | BASO 10 <sup>9</sup> /L      | 0.1         | 0.1            | 0.2         | 0.2            | 0.6         | 0.6            |
|                         | BASO %                       | 3.2         | 3.0            | 3.0         | 3.0            | 3.0         | 3.0            |
|                         | RBC 10 <sup>12</sup> /L      | 2.96        | 0.15           | 4.42        | 0.20           | 5.36        | 0.30           |
|                         | HGB g/dL                     | 7.4         | 0.4            | 12.4        | 0.6            | 16.5        | 0.8            |
|                         | HCT %                        | 20.6        | 1.5            | 33.2        | 2.5            | 42.8        | 3.5            |
|                         | MCV fL                       | 69.7        | 4.0            | 75.0        | 4.0            | 79.9        | 5.0            |
|                         | MCH pg                       | 25.0        | 2.0            | 28.1        | 2.0            | 30.8        | 2.0            |
| MCHC g/dL               | 35.9                         | 2.3         | 37.3           | 3.0         | 38.6           | 2.3         |                |
| RDW %                   | 14.2                         | 2.5         | 12.4           | 2.5         | 11.7           | 2.5         |                |
| PLT 10 <sup>9</sup> /L  | 74                           | 20          | 213            | 30          | 509            | 60          |                |
| MPV fL                  | 10.5                         | 3.0         | 10.3           | 3.0         | 10.3           | 3.0         |                |

\* The **MEAN RANGE** does not represent standard deviations (SD).  
NOTE: Flags may occur with control materials and should be disregarded.



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**REF** 08H59-01, 08H59-02

