



CONTROL | L | N | H

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 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.

NOTE: For CELL-DYN 3700 and CELL-DYN Ruby:

- Perform stain of CELL-DYN 29 Plus Control (with Retic) as a patient sample as described in the CELL-DYN 3700 and CELL-DYN Ruby Reticulocyte Reagent package insert, except limit the staining time to between 15 and 30 minutes.

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.

Exp. 2020-10-23

7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN Sapphire	LOT L02239		LOT N02239		LOT H02239	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WBC 10 ⁹ /L	3.02	0.40	7.05	0.80	16.1	3.0
NEU 10 ⁹ /L	1.72	0.20	4.25	0.40	10.4	1.1
NEU %	57.0	6.0	60.3	5.0	64.6	6.0
LYM 10 ⁹ /L	0.95	0.20	1.89	0.50	3.49	1.00
LYM %	31.5	8.0	26.8	6.0	21.7	5.0
MONO 10 ⁹ /L	0.26	0.20	0.69	0.40	1.72	0.60
MONO %	8.59	6.00	9.81	5.00	10.7	3.0
EOS 10 ⁹ /L	0.10	0.10	0.21	0.17	0.43	0.19
EOS %	3.00	3.00	2.95	2.00	2.70	1.00
BASO 10 ⁹ /L	0.10	0.10	0.25	0.25	0.50	0.50
BASO %	1.50	1.50	1.50	1.50	1.50	1.50
RBC 10 ¹² /L	2.77	0.18	4.15	0.20	5.25	0.30
RBCo 10 ¹² /L	2.84	0.18	4.17	0.20	5.21	0.30
HGB g/dL	7.35	0.30	11.2	0.5	16.2	0.8
HCT %	21.5	1.5	32.7	2.5	46.8	3.0
MCV fL	77.5	4.0	78.8	4.0	89.1	4.0
MCH pg	26.5	2.0	27.0	2.0	30.9	2.0
MCHC g/dL	34.2	2.3	34.3	2.3	34.6	2.3
RDW %	15.4	2.5	15.4	2.5	13.5	2.5
NRBC 10 ⁹ /L*	0.001	0.001	0.001	0.001	2.29	0.60
NRBC/100WBC*	0.001	0.001	0.001	0.001	14.2	2.5
PLT 10 ⁹ /L	74.4	20.0	212	50	471	60
PLTi 10 ⁹ /L	81.7	20.0	232	50	496	60
MPV fL	9.26	2.00	8.17	2.00	7.64	2.00
RETC 10 ⁹ /L	203	50	137	50	97.7	50.0
%R	7.34	1.50	3.30	1.00	1.86	0.80
IRF	0.49	0.18	0.44	0.14	0.37	0.10

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7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN Ruby	LOT L02239		LOT N02239		LOT H02239	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 ⁹ /L	3.0	0.4	7.1	0.7	16.2	2.5
NOC 10 ⁹ /L	3.1	0.4	7.2	1.0	18.7	2.5
NEU 10 ⁹ /L	1.6	0.3	4.2	0.8	10.5	2.0
NEU %	54.5	6.0	59.1	6.0	64.9	10.0
LYM 10 ⁹ /L	0.9	0.3	1.8	0.8	3.3	2.0
LYM %	30.3	7.0	25.6	6.0	20.5	10.0
MONO 10 ⁹ /L	0.3	0.2	0.7	0.4	1.6	0.6
MONO %	10.1	5.0	10.3	4.5	9.8	3.0
EOS 10 ⁹ /L	0.1	0.1	0.2	0.2	0.5	0.2
EOS %	3.0	3.0	2.9	2.0	2.8	1.0
BASO 10 ⁹ /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 ¹² /L	2.69	0.15	4.06	0.20	5.22	0.28
HGB g/dL	7.3	0.4	11.3	0.5	17.1	0.6
HCT %	19.7	1.5	30.2	2.3	43.2	3.5
MCV fL	73.3	4.0	74.4	4.0	82.7	4.0
MCH pg	27.1	2.0	27.8	2.0	32.8	2.0
MCHC g/dL	37.1	2.3	37.4	3.0	39.6	2.3
RDW %	13.3	2.5	12.7	2.5	10.3	2.5
PLT 10 ⁹ /L	75	20	227	30	526	60
MPV fL	6.7	2.0	6.3	2.0	6.4	2.0
Retic %***	6.7	1.5	2.7	1.0	1.4	0.8

NOTE: Flags may occur with control materials. PIC/POC alarms may be seen with this control when used on the CELL-DYN Sapphire. The alarms may be disregarded if the control is performing within the assay ranges.

* NOTE: The Assay Value of .001 and Mean Range of ± .001 for NRBC and NRBC/100WBC is entered for the Level L and Level N controls since the instrument will not accept a value of zero. The NRBC concentration for Levels L and N is below the detectable level of the instrument and as such serves as the NRBC negative control. The Level H is the NRBC positive control.

** The mean range does not represent standard deviations (SD).

*** Retic % values for CELL-DYN Ruby are included as separate files on assay disk.

CELL-DYN 29 Plus Control (with Retic)

CONTROL L N H

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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
	LOT	L02239	LOT	N02239	LOT	H02239
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
CELL-DYN 3700						
WOC 10 ⁹ /L	3.1	0.4	7.1	0.7	16.2	2.5
WIC 10 ⁹ /L	3.3	0.5	7.6	1.0	19.9	3.0
WBC 10 ⁹ /L	3.1	0.4	7.1	0.7	16.2	2.5
NEU 10 ⁹ /L	1.7	0.3	4.2	0.8	10.5	2.0
NEU %	54.5	6.0	59.2	6.0	64.9	10.0
LYM 10 ⁹ /L	1.0	0.3	1.8	0.8	3.3	2.0
LYM %	30.8	7.0	25.5	6.0	20.5	10.0
MONO 10 ⁹ /L	0.3	0.2	0.8	0.4	1.7	0.6
MONO %	10.4	5.0	10.8	4.5	10.3	3.0
EOS 10 ⁹ /L	0.1	0.1	0.2	0.2	0.5	0.2
EOS %	3.0	3.0	2.8	2.0	2.9	1.0
BASO 10 ⁹ /L	0.1	0.1	0.3	0.3	0.6	0.6
BASO %	3.0	3.0	3.0	3.0	3.0	3.0
RBC 10 ¹² /L	2.80	0.15	4.10	0.20	5.21	0.28
HGB g/dL	7.3	0.3	11.4	0.5	17.1	0.6
HCT %	23.2	1.5	35.1	2.3	51.1	3.5
MCV fL	82.7	4.0	85.5	4.0	98.0	4.0
MCH pg	26.1	2.0	27.8	2.0	32.8	2.0
MCHC g/dL	31.5	2.3	32.5	3.0	33.5	2.3
RDW %	19.9	2.5	19.4	2.5	17.2	2.5
PLT 10 ⁹ /L	76	20	226	30	484	60
MPV fL	7.1	2.0	6.8	2.0	6.9	2.0
Retic % ¹	6.5	1.5	2.4	1.0	1.2	0.8
IRF ²	0.62	0.38	0.56	0.30	0.42	0.20

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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
	LOT	L02239	LOT	N02239	LOT	H02239
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
Manual Count ³						
Retic %	5.5	2.0	2.6	1.5	0.8	0.8

** The mean range does not represent standard deviations (SD).

¹ Retic % values will not load from the Assay Disk. Please enter these values manually.

² IRF is reportable on the CELL-DYN 3700 System, Version 1.1 and higher.

³ Manual values were obtained using the Miller Ocular method.



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