

CELL-DYN 29 Plus Control (with Retic)



CONTROL L N H

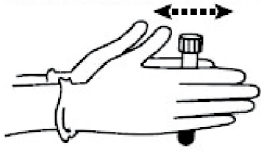
Refer to the appropriate system operator's manual for proper use of CELL-DYN Calibrator and Control Products.

IMPORTANT: Mixing and Handling

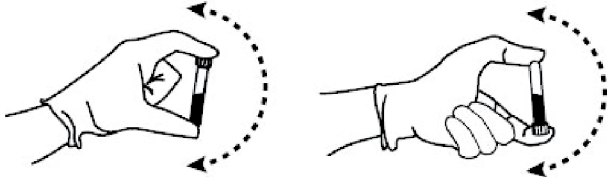
1. Remove a vial of the control from the refrigerator and warm to room temperature (18° to 30° C) for 15 minutes before use.
2. To mix: **(Do NOT mix mechanically or vortex.)**

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 Ruby:

- Perform stain of CELL-DYN 29 Plus Control (with Retic) as a patient sample as described in the 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. 2026-06-26	7 Consecutive Day Open-Vial Stability
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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN Sapphire	LOT L61039		LOT N61039		LOT H61039	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WBC 10 ⁹ /L	2.89	0.40	6.78	0.80	15.8	3.0
NEU 10 ⁹ /L	1.60	0.20	4.18	0.40	10.4	1.1
NEU %	55.5	6.0	61.6	5.0	65.7	6.0
LYM 10 ⁹ /L	0.89	0.20	1.70	0.50	3.14	1.00
LYM %	30.7	8.0	25.0	6.0	19.9	5.0
MONO 10 ⁹ /L	0.32	0.20	0.73	0.40	1.74	0.60
MONO %	11.0	6.0	10.7	5.0	11.0	3.0
EOS 10 ⁹ /L	0.10	0.10	0.17	0.17	0.51	0.19
EOS %	3.00	3.00	2.41	2.00	3.20	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	2.97	0.18	4.23	0.20	5.10	0.30
RBC _o 10 ¹² /L	3.05	0.18	4.27	0.20	5.10	0.30
HGB g/dL	8.25	0.30	12.2	0.5	16.3	0.8
HCT %	23.8	1.5	34.3	2.5	44.8	3.0
MCV fL	80.0	4.0	81.0	4.0	87.9	4.0
MCH pg	27.8	2.0	28.8	2.0	32.0	2.0
MCHC g/dL	34.7	2.3	35.6	2.3	36.4	2.3
RDW %	14.3	2.5	14.1	2.5	13.8	2.5
NRBC 10 ⁹ /L*	0.001	0.001	0.001	0.001	2.18	0.60
NRBC/100WBC*	0.001	0.001	0.001	0.001	13.8	2.5
PLT 10 ⁹ /L	75.4	20.0	215	50	456	60
PLT _i 10 ⁹ /L	77.6	20.0	228	50	477	60
MPV fL	9.23	2.00	8.39	2.00	8.11	2.00
RETc 10 ⁹ /L	239	50	142	50	101	50
%R	8.05	1.50	3.36	1.00	1.98	0.80
IRF	0.56	0.18	0.52	0.14	0.42	0.10

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN Ruby	LOT L61039		LOT N61039		LOT H61039	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 ⁹ /L	3.0	0.4	7.0	0.7	16.4	2.5
NOC 10 ⁹ /L	3.0	0.4	7.1	1.0	18.8	2.5
NEU 10 ⁹ /L	1.6	0.3	4.3	0.8	10.9	2.0
NEU %	54.9	6.0	61.9	6.0	66.3	10.0
LYM 10 ⁹ /L	0.9	0.3	1.7	0.8	3.1	2.0
LYM %	29.3	7.0	24.2	6.0	18.8	10.0
MONO 10 ⁹ /L	0.3	0.2	0.6	0.4	1.5	0.6
MONO %	9.7	5.0	8.9	4.5	9.2	3.0
EOS 10 ⁹ /L	0.1	0.1	0.2	0.2	0.5	0.2
EOS %	3.0	3.0	2.3	2.0	3.2	1.0
BASO 10 ⁹ /L	0.1	0.1	0.2	0.2	0.6	0.6
BASO %	3.4	3.0	3.0	3.0	3.0	3.0
RBC 10 ¹² /L	2.94	0.15	4.27	0.20	5.23	0.28
HGB g/dL	8.1	0.4	12.1	0.5	16.7	0.6
HCT %	22.4	1.5	33.1	2.3	43.6	3.5
MCV fL	76.1	4.0	77.6	4.0	83.3	4.0
MCH pg	27.6	2.0	28.3	2.0	31.9	2.0
MCHC g/dL	36.2	2.3	36.6	3.0	38.3	2.3
RDW %	12.1	2.5	11.6	2.5	10.6	2.5
PLT 10 ⁹ /L	76	20	231	30	514	60
MPV fL	6.6	2.0	6.2	2.0	6.2	2.0
Retic %***	5.3	1.5	1.9	1.0	1.0	0.8

Exp. 2026-06-26	7 Consecutive Day Open-Vial Stability
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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
Manual Count ¹	LOT L61039		LOT N61039		LOT H61039	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
Retic %	5.2	2.0	2.4	1.5	0.8	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.

¹ Manual values were obtained using the Miller Ocular method.



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