

# CELL-DYN 29 Plus Control (with Retic)

ABBOTT  
CELL-DYN SYSTEMS



ASSAY SHEET

## 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](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.

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. 2022-03-11

7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL   L		CONTROL   N		CONTROL   H	
	LOT	L13619	LOT	N13619	LOT	H13619
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WBC 10 <sup>9</sup> /L	3.12	0.40	7.09	0.80	16.2	3.0
NEU 10 <sup>9</sup> /L	1.82	0.20	4.36	0.40	10.5	1.1
NEU %	58.5	6.0	61.4	5.0	64.5	6.0
LYM 10 <sup>9</sup> /L	0.92	0.20	1.80	0.50	3.48	1.00
LYM %	29.3	8.0	25.4	6.0	21.4	5.0
MONO 10 <sup>9</sup> /L	0.28	0.20	0.75	0.40	1.75	0.60
MONO %	9.04	6.00	10.6	5.0	10.8	3.0
EOS 10 <sup>9</sup> /L	0.10	0.10	0.17	0.17	0.50	0.19
EOS %	3.00	3.00	2.41	2.00	3.07	1.00
BASO 10 <sup>9</sup> /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 <sup>12</sup> /L	2.88	0.18	4.25	0.20	5.19	0.30
RBC <sub>o</sub> 10 <sup>12</sup> /L	2.98	0.18	4.30	0.20	5.18	0.30
HGB g/dL	7.89	0.30	12.2	0.5	16.9	0.8
HCT %	22.7	1.5	34.9	2.5	46.8	3.0
MCV fL	78.7	4.0	82.1	4.0	90.2	4.0
MCH pg	27.4	2.0	28.8	2.0	32.5	2.0
MCHC g/dL	34.8	2.3	35.1	2.3	36.0	2.3
RDW %	15.9	2.5	14.8	2.5	14.5	2.5
NRBC 10 <sup>9</sup> /L*	0.001	0.001	0.001	0.001	2.32	0.60
NRBC/100WBC*	0.001	0.001	0.001	0.001	14.3	2.5
PLT 10 <sup>9</sup> /L	77.4	20.0	219	50	467	60
PLTi 10 <sup>9</sup> /L	81.4	20.0	231	50	477	60
MPV fL	9.48	2.00	7.87	2.00	7.52	2.00
RETC 10 <sup>9</sup> /L	235	50	143	50	96.3	50.0
%R	8.16	1.50	3.37	1.00	1.85	0.80
IRF	0.53	0.18	0.46	0.14	0.38	0.10

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7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL   L		CONTROL   N		CONTROL   H	
	LOT	L13619	LOT	N13619	LOT	H13619
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 <sup>9</sup> /L	3.2	0.4	7.2	0.7	16.6	2.5
NOC 10 <sup>9</sup> /L	3.2	0.4	7.2	1.0	18.6	2.5
NEU 10 <sup>9</sup> /L	1.8	0.3	4.4	0.8	10.8	2.0
NEU %	56.8	6.0	61.0	6.0	64.8	10.0
LYM 10 <sup>9</sup> /L	0.9	0.3	1.8	0.8	3.3	2.0
LYM %	28.1	7.0	24.3	6.0	20.0	10.0
MONO 10 <sup>9</sup> /L	0.3	0.2	0.7	0.4	1.6	0.6
MONO %	9.7	5.0	9.7	4.5	9.6	3.0
EOS 10 <sup>9</sup> /L	0.1	0.1	0.2	0.2	0.5	0.2
EOS %	3.0	3.0	2.4	2.0	3.1	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	2.89	0.15	4.36	0.20	5.37	0.28
HGB g/dL	7.7	0.4	12.3	0.5	17.3	0.6
HCT %	21.2	1.5	33.4	2.3	44.7	3.5
MCV fL	73.4	4.0	76.6	4.0	83.2	4.0
MCH pg	26.6	2.0	28.1	2.0	32.3	2.0
MCHC g/dL	36.3	2.3	36.7	3.0	38.8	2.3
RDW %	13.8	2.5	12.5	2.5	11.1	2.5
PLT 10 <sup>9</sup> /L	77	20	229	30	509	60
MPV fL	6.5	2.0	5.9	2.0	5.8	2.0
Retic %***	6.6	1.5	2.2	1.0	1.1	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**

Exp. 2022-03-11	7 Consecutive Day Open-Vial Stability
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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN 3700	LOT L13619		LOT N13619		LOT H13619	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 <sup>9</sup> /L	3.3	0.4	7.1	0.7	16.1	2.5
WIC 10 <sup>9</sup> /L	3.5	0.5	7.2	1.0	18.2	3.0
WBC 10 <sup>9</sup> /L	3.3	0.4	7.1	0.7	16.1	2.5
NEU 10 <sup>9</sup> /L	1.8	0.3	4.3	0.8	10.4	2.0
NEU %	56.8	6.0	61.0	6.0	65.0	10.0
LYM 10 <sup>9</sup> /L	0.9	0.3	1.7	0.8	3.2	2.0
LYM %	29.0	7.0	24.3	6.0	20.0	10.0
MONO 10 <sup>9</sup> /L	0.3	0.2	0.7	0.4	1.6	0.6
MONO %	10.1	5.0	10.6	4.5	10.2	3.0
EOS 10 <sup>9</sup> /L	0.1	0.1	0.2	0.2	0.5	0.2
EOS %	3.0	3.0	2.4	2.0	3.1	1.0
BASO 10 <sup>9</sup> /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 <sup>12</sup> /L	2.91	0.15	4.26	0.20	5.25	0.28
HGB g/dL	7.8	0.3	12.3	0.5	17.3	0.6
HCT %	24.2	1.5	37.7	2.3	51.5	3.5
MCV fL	83.1	4.0	88.5	4.0	98.0	4.0
MCH pg	27.0	2.0	28.9	2.0	33.0	2.0
MCHC g/dL	32.5	2.3	32.6	3.0	33.6	2.3
RDW %	19.6	2.5	17.8	2.5	17.4	2.5
PLT 10 <sup>9</sup> /L	72	20	217	30	457	60
MPV fL	7.2	2.0	7.1	2.0	7.0	2.0
Retic % <sup>1</sup>	5.8	1.5	2.0	1.0	1.1	0.8
IRF <sup>2</sup>	0.62	0.38	0.39	0.30	0.41	0.20

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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
Manual Count <sup>3</sup>	LOT L13619		LOT N13619		LOT H13619	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
Retic %	5.5	2.0	2.7	1.5	0.8	0.8

\*\* The mean range does not represent standard deviations (SD).  
<sup>1</sup> Retic % values will not load from the Assay Disk. Please enter these values manually.  
<sup>2</sup> IRF is reportable on the CELL-DYN 3700 System, Version 1.1 and higher.  
<sup>3</sup> Manual values were obtained using the Miller Ocular method.



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