

# CELL-DYN 29 Plus Control (with Retic)

ABBOTT  
CELL-DYN SYSTEMS



ASSAY SHEET

CONTROL | L | N | H

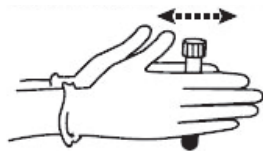
Refer to the appropriate system operator's manual for proper use of CELL-DYN Calibrator and Control Products.

### 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. 2021-05-07

7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN Sapphire	LOT L10539		LOT N10539		LOT H10539	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WBC 10 <sup>9</sup> /L	3.19	0.40	7.28	0.80	16.2	3.0
NEU 10 <sup>9</sup> /L	1.87	0.20	4.47	0.40	10.5	1.1
NEU %	58.7	6.0	61.4	5.0	65.0	6.0
LYM 10 <sup>9</sup> /L	0.92	0.20	1.89	0.50	3.39	1.00
LYM %	28.9	8.0	25.9	6.0	20.9	5.0
MONO 10 <sup>9</sup> /L	0.31	0.20	0.74	0.40	1.78	0.60
MONO %	9.71	6.00	10.2	5.0	11.0	3.0
EOS 10 <sup>9</sup> /L	0.10	0.10	0.17	0.17	0.46	0.19
EOS %	3.00	3.00	2.35	2.00	2.84	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	2.92	0.18	4.26	0.20	5.32	0.30
RBCo 10 <sup>12</sup> /L	2.98	0.18	4.30	0.20	5.29	0.30
HGB g/dL	7.87	0.30	12.0	0.5	17.1	0.8
HCT %	22.8	1.5	34.6	2.5	48.3	3.0
MCV fL	78.0	4.0	81.3	4.0	90.8	4.0
MCH pg	27.0	2.0	28.2	2.0	32.1	2.0
MCHC g/dL	34.5	2.3	34.7	2.3	35.4	2.3
RDW %	15.0	2.5	15.4	2.5	13.8	2.5
NRBC 10 <sup>9</sup> /L*	0.001	0.001	0.001	0.001	2.02	0.60
NRBC/100WBC*	0.001	0.001	0.001	0.001	12.5	2.5
PLT 10 <sup>9</sup> /L	72.7	20.0	218	50	483	60
PLTi 10 <sup>9</sup> /L	75.7	20.0	226	50	487	60
MPV fL	9.10	2.00	7.61	2.00	7.15	2.00
RETC 10 <sup>9</sup> /L	235	50	143	50	107	50
%R	8.03	1.50	3.36	1.00	2.01	0.80
IRF	0.58	0.18	0.48	0.14	0.40	0.10



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7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN Ruby	LOT L10539		LOT N10539		LOT H10539	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 <sup>9</sup> /L	3.2	0.4	7.3	0.7	16.4	2.5
NOC 10 <sup>9</sup> /L	3.2	0.4	7.3	1.0	18.4	2.5
NEU 10 <sup>9</sup> /L	1.9	0.3	4.4	0.8	10.7	2.0
NEU %	57.9	6.0	60.7	6.0	65.3	10.0
LYM 10 <sup>9</sup> /L	0.9	0.3	1.8	0.8	3.3	2.0
LYM %	27.2	7.0	24.8	6.0	19.9	10.0
MONO 10 <sup>9</sup> /L	0.3	0.2	0.7	0.4	1.6	0.6
MONO %	9.9	5.0	9.7	4.5	9.9	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	2.9	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	2.93	0.15	4.35	0.20	5.51	0.28
HGB g/dL	7.7	0.4	12.0	0.5	17.7	0.6
HCT %	21.4	1.5	33.1	2.3	46.2	3.5
MCV fL	72.9	4.0	76.0	4.0	83.8	4.0
MCH pg	26.3	2.0	27.6	2.0	32.1	2.0
MCHC g/dL	36.0	2.3	36.3	3.0	38.3	2.3
RDW %	12.8	2.5	12.9	2.5	10.6	2.5
PLT 10 <sup>9</sup> /L	72	20	227	30	529	60
MPV fL	6.5	2.0	6.0	2.0	6.0	2.0
Retic %***	7.0	1.5	2.9	1.0	1.5	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. 2021-05-07	7 Consecutive Day Open-Vial Stability
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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN 3700	LOT L10539		LOT N10539		LOT H10539	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 <sup>9</sup> /L	3.3	0.4	7.2	0.7	16.2	2.5
WIC 10 <sup>9</sup> /L	3.5	0.5	7.7	1.0	18.9	3.0
WBC 10 <sup>9</sup> /L	3.3	0.4	7.2	0.7	16.2	2.5
NEU 10 <sup>9</sup> /L	1.9	0.3	4.4	0.8	10.5	2.0
NEU %	58.0	6.0	60.9	6.0	65.1	10.0
LYM 10 <sup>9</sup> /L	0.9	0.3	1.8	0.8	3.2	2.0
LYM %	28.1	7.0	25.0	6.0	19.9	10.0
MONO 10 <sup>9</sup> /L	0.3	0.2	0.7	0.4	1.7	0.6
MONO %	10.2	5.0	10.0	4.5	10.5	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	2.9	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	2.98	0.15	4.34	0.20	5.43	0.28
HGB g/dL	7.8	0.3	12.1	0.5	17.6	0.6
HCT %	24.9	1.5	38.1	2.3	53.8	3.5
MCV fL	83.4	4.0	87.9	4.0	99.0	4.0
MCH pg	26.2	2.0	27.9	2.0	32.4	2.0
MCHC g/dL	31.3	2.3	31.8	3.0	32.7	2.3
RDW %	18.6	2.5	18.5	2.5	17.1	2.5
PLT 10 <sup>9</sup> /L	68	20	213	30	457	60
MPV fL	6.8	2.0	6.6	2.0	6.6	2.0
Retic % <sup>1</sup>	6.7	1.5	2.7	1.0	1.3	0.8
IRF <sup>2</sup>	0.62	0.38	0.57	0.30	0.44	0.20


 Exp. 2021-05-07	7 Consecutive Day Open-Vial Stability
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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
Manual Count <sup>3</sup>	LOT L10539		LOT N10539		LOT H10539	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
Retic %	5.6	2.0	2.6	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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**MANUFACTURED FOR**  
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**REF** 08H58-01, 08H58-02



9231566B 350491-10 August 2018  
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