

# CELL-DYN 29 Plus Control (with Retic)

ABBOTT  
CELL-DYN SYSTEMS



CONTROL | L | N | H

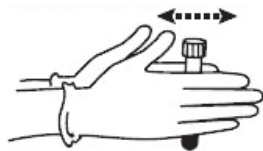
Refer to the appropriate system operator's manual for proper use of CELL-DYN Calibrator and Control Products.

### 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. 2021-03-12

7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN Sapphire	LOT L03639		LOT N03639		LOT H03639	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WBC 10 <sup>9</sup> /L	2.93	0.40	7.02	0.80	15.9	3.0
NEU 10 <sup>9</sup> /L	1.72	0.20	4.34	0.40	10.2	1.1
NEU %	58.6	6.0	61.8	5.0	64.4	6.0
LYM 10 <sup>9</sup> /L	0.84	0.20	1.78	0.50	3.39	1.00
LYM %	28.8	8.0	25.3	6.0	21.3	5.0
MONO 10 <sup>9</sup> /L	0.29	0.20	0.69	0.40	1.72	0.60
MONO %	9.81	6.00	9.82	5.00	10.8	3.0
EOS 10 <sup>9</sup> /L	0.10	0.10	0.20	0.17	0.51	0.19
EOS %	3.00	3.00	2.91	2.00	3.19	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	2.85	0.18	4.16	0.20	5.21	0.30
RBCo 10 <sup>12</sup> /L	2.93	0.18	4.21	0.20	5.18	0.30
HGB g/dL	7.72	0.30	11.6	0.5	16.0	0.8
HCT %	22.4	1.5	33.5	2.5	45.4	3.0
MCV fL	78.6	4.0	80.5	4.0	87.2	4.0
MCH pg	27.1	2.0	27.9	2.0	30.7	2.0
MCHC g/dL	34.5	2.3	34.6	2.3	35.2	2.3
RDW %	15.5	2.5	16.2	2.5	14.6	2.5
NRBC 10 <sup>9</sup> /L*	0.001	0.001	0.001	0.001	2.28	0.60
NRBC/100WBC*	0.001	0.001	0.001	0.001	14.3	2.5
PLT 10 <sup>9</sup> /L	70.3	20.0	208	50	450	60
PLTi 10 <sup>9</sup> /L	77.4	20.0	225	50	471	60
MPV fL	9.39	2.00	7.93	2.00	7.33	2.00
RETC 10 <sup>9</sup> /L	227	50	140	50	87.5	50.0
%R	7.98	1.50	3.37	1.00	1.68	0.80
IRF	0.61	0.18	0.52	0.14	0.39	0.10



Exp. 2021-03-12

7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN Ruby	LOT L03639		LOT N03639		LOT H03639	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 <sup>9</sup> /L	3.0	0.4	7.1	0.7	16.3	2.5
NOC 10 <sup>9</sup> /L	3.0	0.4	7.2	1.0	18.7	2.5
NEU 10 <sup>9</sup> /L	1.7	0.3	4.4	0.8	10.5	2.0
NEU %	57.5	6.0	61.4	6.0	64.3	10.0
LYM 10 <sup>9</sup> /L	0.8	0.3	1.7	0.8	3.4	2.0
LYM %	27.9	7.0	24.1	6.0	20.6	10.0
MONO 10 <sup>9</sup> /L	0.3	0.2	0.7	0.4	1.6	0.6
MONO %	9.3	5.0	9.4	4.5	10.0	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	2.9	2.0	3.2	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	2.87	0.15	4.26	0.20	5.35	0.28
HGB g/dL	7.5	0.4	11.5	0.5	16.2	0.6
HCT %	21.2	1.5	32.1	2.3	43.5	3.5
MCV fL	73.8	4.0	75.4	4.0	81.3	4.0
MCH pg	26.1	2.0	27.0	2.0	30.3	2.0
MCHC g/dL	35.4	2.3	35.8	3.0	37.2	2.3
RDW %	13.3	2.5	13.4	2.5	11.6	2.5
PLT 10 <sup>9</sup> /L	71	20	217	30	493	60
MPV fL	6.5	2.0	6.0	2.0	6.0	2.0
Retic %***	7.2	1.5	3.1	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. 2021-03-12	7 Consecutive Day Open-Vial Stability
-----------------	---------------------------------------

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN 3700	LOT L03639		LOT N03639		LOT H03639	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 <sup>9</sup> /L	3.1	0.4	7.0	0.7	16.0	2.5
WIC 10 <sup>9</sup> /L	3.2	0.5	7.4	1.0	19.0	3.0
WBC 10 <sup>9</sup> /L	3.1	0.4	7.0	0.7	16.0	2.5
NEU 10 <sup>9</sup> /L	1.8	0.3	4.3	0.8	10.3	2.0
NEU %	57.2	6.0	60.9	6.0	64.4	10.0
LYM 10 <sup>9</sup> /L	0.9	0.3	1.7	0.8	3.3	2.0
LYM %	28.4	7.0	24.7	6.0	20.5	10.0
MONO 10 <sup>9</sup> /L	0.3	0.2	0.7	0.4	1.7	0.6
MONO %	10.0	5.0	9.8	4.5	10.4	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	3.0	2.0	3.2	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	2.90	0.15	4.26	0.20	5.33	0.28
HGB g/dL	7.7	0.3	11.7	0.5	16.5	0.6
HCT %	23.9	1.5	36.6	2.3	50.1	3.5
MCV fL	82.5	4.0	85.8	4.0	94.0	4.0
MCH pg	26.6	2.0	27.5	2.0	31.0	2.0
MCHC g/dL	32.2	2.3	32.0	3.0	32.9	2.3
RDW %	19.7	2.5	19.6	2.5	18.1	2.5
PLT 10 <sup>9</sup> /L	73	20	214	30	460	60
MPV fL	7.0	2.0	6.7	2.0	6.8	2.0
Retic % <sup>1</sup>	6.8	1.5	2.7	1.0	1.4	0.8
IRF <sup>2</sup>	0.62	0.38	0.59	0.30	0.42	0.20

Exp. 2021-03-12	7 Consecutive Day Open-Vial Stability
-----------------	---------------------------------------

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
Manual Count <sup>3</sup>	LOT L03639		LOT N03639		LOT H03639	
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.



CELL-DYN, CELL-DYN Sapphire and CELL-DYN Ruby are trademarks of Abbott Laboratories in various jurisdictions.

Abbott Laboratories  
 Diagnostics Division  
 Abbott Park, IL 60064  
 USA

**EC REP** Abbott GmbH & Co. KG  
 Max-Planck-Ring 2  
 65205 Wiesbaden  
 Germany  
 +49-6122-580

**MANUFACTURED FOR**  
 Abbott Laboratories



**REF** 08H58-01, 08H58-02

9231566B 350491-10 August 2018  
 ©2017, 2018 Abbott Laboratories