

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 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. 2021-11-19

7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
	LOT L12499		LOT N12499		LOT H12499	
	PARAMETER	ASSAY VALUE ± MEAN RANGE **	ASSAY VALUE ± MEAN RANGE **	ASSAY VALUE ± MEAN RANGE **	ASSAY VALUE ± MEAN RANGE **	ASSAY VALUE ± MEAN RANGE **
WBC 10 ⁹ /L	2.98	0.40	6.99	0.80	16.3	3.0
NEU 10 ⁹ /L	1.75	0.20	4.23	0.40	10.6	1.1
NEU %	58.8	6.0	60.6	5.0	65.0	6.0
LYM 10 ⁹ /L	0.87	0.20	1.85	0.50	3.40	1.00
LYM %	29.2	8.0	26.5	6.0	20.9	5.0
MONO 10 ⁹ /L	0.27	0.20	0.70	0.40	1.82	0.60
MONO %	9.02	6.00	10.0	5.0	11.2	3.0
EOS 10 ⁹ /L	0.10	0.10	0.18	0.17	0.45	0.19
EOS %	3.00	3.00	2.63	2.00	2.77	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	2.94	0.18	4.28	0.20	5.15	0.30
RBC _o 10 ¹² /L	3.03	0.18	4.35	0.20	5.18	0.30
HGB g/dL	7.99	0.30	12.2	0.5	16.1	0.8
HCT %	22.8	1.5	34.8	2.5	45.1	3.0
MCV fL	77.6	4.0	81.3	4.0	87.6	4.0
MCH pg	27.2	2.0	28.6	2.0	31.4	2.0
MCHC g/dL	35.1	2.3	35.1	2.3	35.8	2.3
RDW %	15.6	2.5	15.1	2.5	15.0	2.5
NRBC 10 ⁹ /L*	0.001	0.001	0.001	0.001	2.30	0.60
NRBC/100WBC*	0.001	0.001	0.001	0.001	14.1	2.5
PLT 10 ⁹ /L	74.1	20.0	213	50	453	60
PLTi 10 ⁹ /L	78.1	20.0	225	50	471	60
MPV fL	9.07	2.00	7.96	2.00	7.56	2.00
RETC 10 ⁹ /L	234	50	146	50	88.5	50.0
%R	7.98	1.50	3.41	1.00	1.72	0.80
IRF	0.58	0.18	0.49	0.14	0.38	0.10



Exp. 2021-11-19

7 Consecutive Day Open-Vial Stability

SYSTEM	CONTROL L		CONTROL N		CONTROL H	
	LOT L12499		LOT N12499		LOT H12499	
	PARAMETER	ASSAY VALUE ± MEAN RANGE **	ASSAY VALUE ± MEAN RANGE **	ASSAY VALUE ± MEAN RANGE **	ASSAY VALUE ± MEAN RANGE **	ASSAY VALUE ± MEAN RANGE **
WOC 10 ⁹ /L	3.0	0.4	7.1	0.7	16.5	2.5
NOC 10 ⁹ /L	3.1	0.4	7.1	1.0	18.6	2.5
NEU 10 ⁹ /L	1.8	0.3	4.4	0.8	10.8	2.0
NEU %	57.9	6.0	61.1	6.0	65.6	10.0
LYM 10 ⁹ /L	0.8	0.3	1.8	0.8	3.3	2.0
LYM %	27.8	7.0	25.1	6.0	19.7	10.0
MONO 10 ⁹ /L	0.3	0.2	0.6	0.4	1.6	0.6
MONO %	9.7	5.0	9.0	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	2.6	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	2.91	0.15	4.32	0.20	5.25	0.28
HGB g/dL	7.9	0.4	12.3	0.5	16.7	0.6
HCT %	21.1	1.5	32.7	2.3	42.7	3.5
MCV fL	72.6	4.0	75.7	4.0	81.3	4.0
MCH pg	27.1	2.0	28.6	2.0	31.8	2.0
MCHC g/dL	37.4	2.3	37.8	3.0	39.1	2.3
RDW %	13.2	2.5	12.6	2.5	11.6	2.5
PLT 10 ⁹ /L	74	20	226	30	495	60
MPV fL	6.6	2.0	6.2	2.0	6.2	2.0
Retic %***	5.9	1.5	2.3	1.0	1.0	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. 2021-11-19	7 Consecutive Day Open-Vial Stability
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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
CELL-DYN 3700	LOT L12499		LOT N12499		LOT H12499	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
WOC 10 ⁹ /L	3.1	0.4	7.1	0.7	17.0	2.5
WIC 10 ⁹ /L	3.1	0.5	7.2	1.0	18.8	3.0
WBC 10 ⁹ /L	3.1	0.4	7.1	0.7	17.0	2.5
NEU 10 ⁹ /L	1.8	0.3	4.3	0.8	11.2	2.0
NEU %	58.6	6.0	61.0	6.0	65.5	10.0
LYM 10 ⁹ /L	0.9	0.3	1.8	0.8	3.4	2.0
LYM %	27.6	7.0	25.3	6.0	19.9	10.0
MONO 10 ⁹ /L	0.3	0.2	0.7	0.4	1.8	0.6
MONO %	9.7	5.0	9.6	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	2.6	2.0	2.8	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	2.99	0.15	4.33	0.20	5.21	0.28
HGB g/dL	8.0	0.3	12.3	0.5	16.7	0.6
HCT %	24.9	1.5	38.1	2.3	49.8	3.5
MCV fL	83.1	4.0	88.0	4.0	95.5	4.0
MCH pg	26.7	2.0	28.5	2.0	32.0	2.0
MCHC g/dL	32.1	2.3	32.4	3.0	33.5	2.3
RDW %	18.6	2.5	18.2	2.5	18.3	2.5
PLT 10 ⁹ /L	73	20	219	30	462	60
MPV fL	7.1	2.0	7.0	2.0	7.0	2.0
Retic % ¹	5.8	1.5	2.0	1.0	0.9	0.8
IRF ²	0.62	0.38	0.40	0.30	0.40	0.20

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SYSTEM	CONTROL L		CONTROL N		CONTROL H	
Manual Count ³	LOT L12499		LOT N12499		LOT H12499	
PARAMETER	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **	ASSAY VALUE	± MEAN RANGE **
Retic %	5.5	2.0	2.5	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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