FDA 510(k) Cleared

ADAM rWBC 2

residual Leukocyte Counter

45 Sec

Just 45 sec.

you can count on!

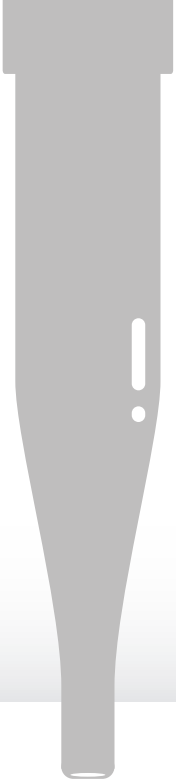
ADAM

WBC 2

45
Sec

3
Steps

r^2=0.99
Accuracy



ADAM rWBC 2

New standard of residual leukocyte counting

ADAM-rWBC system automatically counts the number of residual white blood cells (rWBCs) in leukoreduced blood products. The device ensures the number of rWBCs meets the standards used to minimize complications associated with the transfusions performed in hospitals.

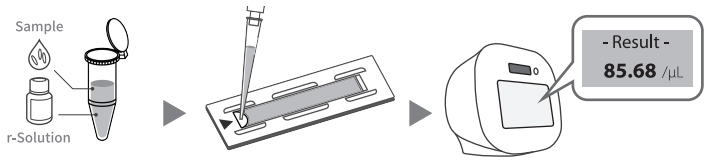
Fast
measurement

Features

All procedures are automated once the sample loaded slide is inserted into the device. It takes only **45 seconds** to count the residual leukocytes.

Easy
to use

ADAM-rWBC system procedure is very simple and easy, so everyone can use it.

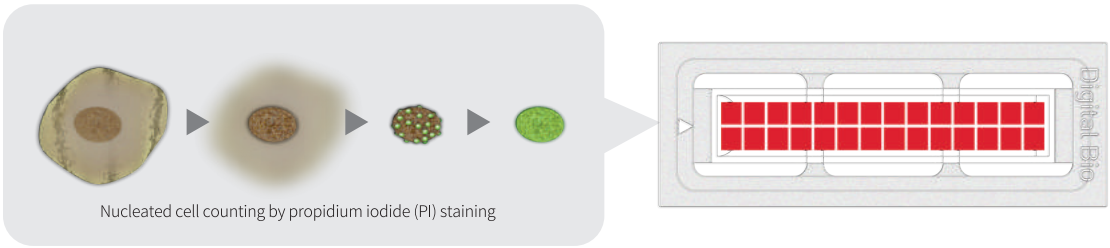


1. Sample preparation
2. Sample loading
3. Get the result

Accurate
result

Automated cell counting eliminates user bias or subjective interpretation that can be found when counting residual leukocytes using other methods.

- r^2= 0.989
- **Substantially equivalent to flow cytometry**



Nucleated cell counting by propidium iodide (PI) staining

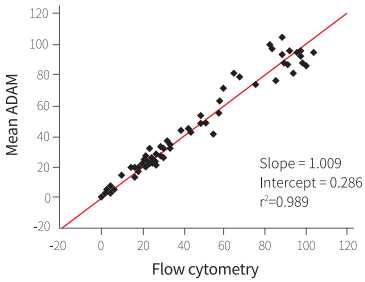
New Technology behind the Accuracy

ADAM-rWBC system is a precise, automated optical system capable of fluorescent image analysis.
The ADAM-rWBC2 automatically focuses on the slide. The stained cells are taken and recorded by a sensitive CMOS camera.
The ADAM-rWBC2 analyzes and reports a result in using integral image analysis software.

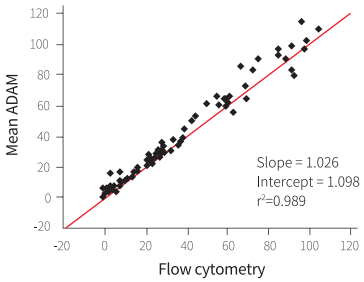
Comparison to Flow cytometry

Refer to the following comparison of residual blood cell enumeration methods between flow cytometry (Leucocount) and ADAM-rWBC series in using different amounts of white blood cells aliquots. This comparison was performed using both RBC and platelet samples.

RBC products



Platelet products



Precision test

Stain-to-Stain Precision - RBCs							
WBC / µL target	Site#	Mean	SD	Total CV%	Mean	SD	Total CV%
		Unit 01			Unit 02		
0-1	1	<1	0.43	NA	1	0.47	44.15
	2	<1	0.62	NA	1	0.96	69.91
	3	<1	0.19	NA	<1	0.60	NA
5-10	1	6	1.05	17.20	8	0.89	10.84
	2	6	1.85	28.97	10	1.32	13.49
	3	7	0.62	9.39	6	0.98	17.57
20-30	1	26	2.11	7.98	27	2.34	8.53
	2	20	0.89	4.38	24	2.33	9.70
	3	25	2.15	8.49	27	3.60	13.59
50-60	1	49	2.77	5.64	54	3.26	6.07
	2	47	3.47	7.42	64	4.59	7.21
	3	54	2.39	4.41	55	3.67	6.71
80-100	1	82	1.91	2.33	90	7.37	8.19
	2	73	6.35	8.69	84	5.14	6.09
	3	91	4.27	4.68	89	4.66	5.24

Stain-to-Stain Precision - Platelets							
WBC / µL target	Site#	Mean	SD	Total CV%	Mean	SD	Total CV%
		Unit 01			Unit 02		
0-1	1	1	0.81	60.05	<1	NA	NA
	2	<1	0.22	NA	<1	0.42	NA
	3	<1	0.31	NA	<1	0.44	NA
5-10	1	8	0.85	10.77	8	0.83	11.02
	2	5	1.08	20.66	9	0.87	9.54
	3	6	0.92	14.84	6	1.17	18.37
20-30	1	26	1.79	7.00	25	2.49	10.07
	2	15	2.08	13.89	26	1.64	6.34
	3	28	2.65	9.47	29	2.02	6.88
50-60	1	52	2.84	5.48	55	2.74	4.96
	2	32	2.57	7.94	49	1.68	3.42
	3	61	3.07	5.04	614	3.99	6.58
80-100	1	92	5.89	6.39	90	3.93	4.38
	2	53	2.27	4.30	84	3.03	3.61
	3	98	3.39	3.45	100	3.69	3.67

Armerican Red Cross Holland Lab, Rockville, MD

ADAM rWBC 2

residual Leukocyte Counter

ADAM-rWBC2

Cat No. ADAM-rWBC2

ADAM-rWBC Kit

Cat No. AD1K-050

Specifications

ADAM-rWBC2

Analysis time	45 sec/test
Voltage	DC12V
Detection method	4W Green LED
Weight	7.0 Kg
Size	277 x 276 x 270 mm (WxLxH)
Data export	PC connection

ADAM-rWBC Kit

Standard bead	7 mL
r-Solution	25 mL
r-Slide	50 pcs (Loading sample volume : 100 µL/test)

Ordering information

Catalog Number	Product Name
ADAM-rWBC2	ADAM-rWBC2
AD1K-050	ADAM-rWBC Kit (50 tests)

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NESCT-AR2-001E(V.0.1)

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