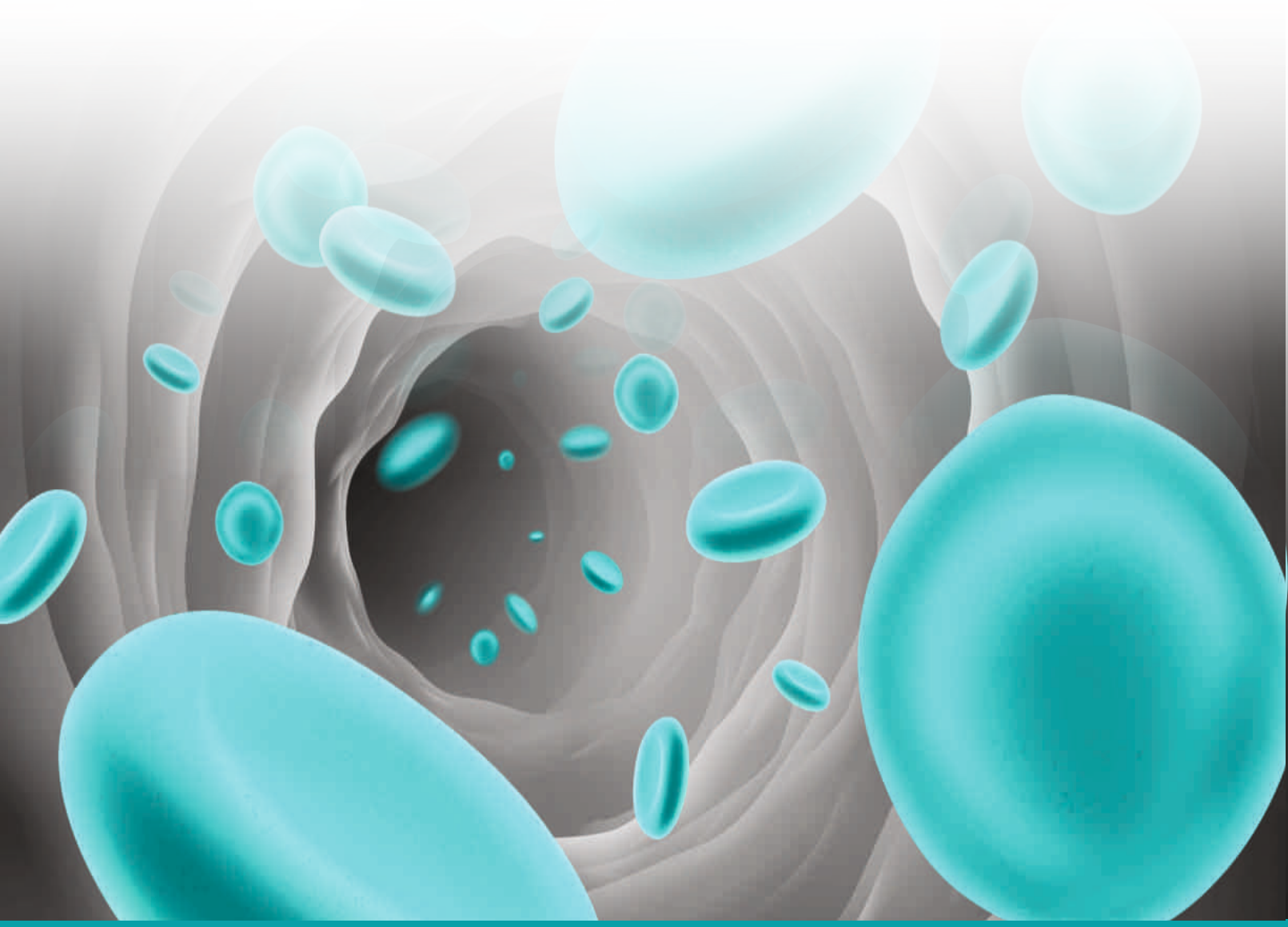
VANGUARD DIAGNOSTICS



Validation Report - Greece

Sysmex- 3 Part & 5 Part Reagents

Evaluation of Hematology Reagents

Technical Report

Reagents for 3 Part Sysmex Hematology Analyzers

In collaboration with

MSC medical
on your side since 2010

Sitz der Gesellschaft / Office: Wieblinger Weg 17, 69123 Heidelberg
Handelsregister-Nr. / Commercial Register No.: HRB 710843
Registergericht / Register Court: Mannheim
UID-Nr. / VAT Reg. No.: DE275261186
Geschäftsführer / Managing Directors: Maxim Dyja

MSC medical GmbH
Wieblinger Weg 17
69123 Heidelberg, Germany

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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Πασχώνη Φλωρα

Comparative Evaluation

VDx Compatible Reagents for the Sysmex 3 Part Hematology Analyzer

v/s

Reference Reagents for the Sysmex 3 Part Hematology Analyzer

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

VDx : Vanguard Diagnostics (P) Limited

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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Name of the Lab

FLORA PASXONI, GIANNITSA GREECE

Details of Reagents

Type of Reagents	**3 Part Hematology Reagents**
Instrument Model	**Sysmex – XP100/ KX-21N**
Reference Reagents	**Sysmex Reference Reagents**
Cellpack	**Lot No : D5013** **Expiry Date : 07/12/2026**
Stromatolyser-WH	**Lot No : D4173** **Expiry Date: 04/11/2026**
VDx Reagents 1) Diluent Pack 5P1-S (20L) 2) Lyse-S	**Lot No : HD5P1S250301 Expiry Date : 28/2/27** **Lot No : HVLS250101 Expiry Date : 30/12/26**

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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Background Test		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC ($10^3/\mu l$)	0.1	0.1
RBC ($10^6/\mu l$)	0.0	0
HGB (g/dl)	0	0
HCT (%)		
MCV (fL)		
MCH (pg)	0	
MCHC (g/dl)		
PLT ($10^3/\mu l$)	0	0
LYM (%)		
MXD (%)		
NEUT (%)		
LYM# ($10^3/\mu l$)		
MXD# ($10^3/\mu l$)		
NEUT# ($10^3/\mu l$)		
RDW-SD (fL)		
RDW-CV (%)		
PDW (fL)		
MPV (fL)		
P-LCR (%)		
PCT (%)		

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Accuracy Study

(Coefficient of Correlation)

Objective: to determine the correlation between the results obtained with Vanguard's compatible reagents for Sysmex 3 Part Analyzer and Reference reagents for Sysmex 3 Part Analyzer.

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation Studies

I. The objective was to determine the correlation between the results obtained with the developed Vanguard compatible 3 Part Sysmex reagents and the 3 Part Sysmex Reference Reagents.

II. The Coefficient of Correlation ("r") was calculated for each major parameter of the Complete Blood Count.

III. The data has been presented in the form of:

1. Sample size
2. Mean x ($\bar{x}$)
3. Mean y ($\bar{y}$)
4. Intercept (a)
5. Slope (b)
6. Regression line equation
7. Value of "r"
8. Linear Regression Graph
9. Raw Data of values
10. Histograms will be made available at the time of visit

Note: The correlation coefficient, is a numerical value between -1 and 1 that expresses the strength of the linear relationship between two variables. When "r" is closer to 1 it indicates a strong positive relationship. A value of 0 indicates that there is no relationship. Values close to -1 signal a strong negative relationship between the two variables.

Correlation coefficient formula: There are many formulas to calculate the correlation coefficient (all yielding the same result). We used the following:

$$r = \frac{n\sum_{i=1}^{n} x_i y_i - \sum_{i=1}^{n} x_i \sum_{i=1}^{n} y_i}{\sqrt{(n\sum_{i=1}^{n} x_i^2 - (\sum_{i=1}^{n} x_i)^2)(n\sum_{i=1}^{n} y_i^2 - (\sum_{i=1}^{n} y_i)^2)}}$$

Where n is the total number of samples, xi (x1, x2,...,xn) are the x values and yi are the y values.

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): WBC

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.996

Sample size: 20

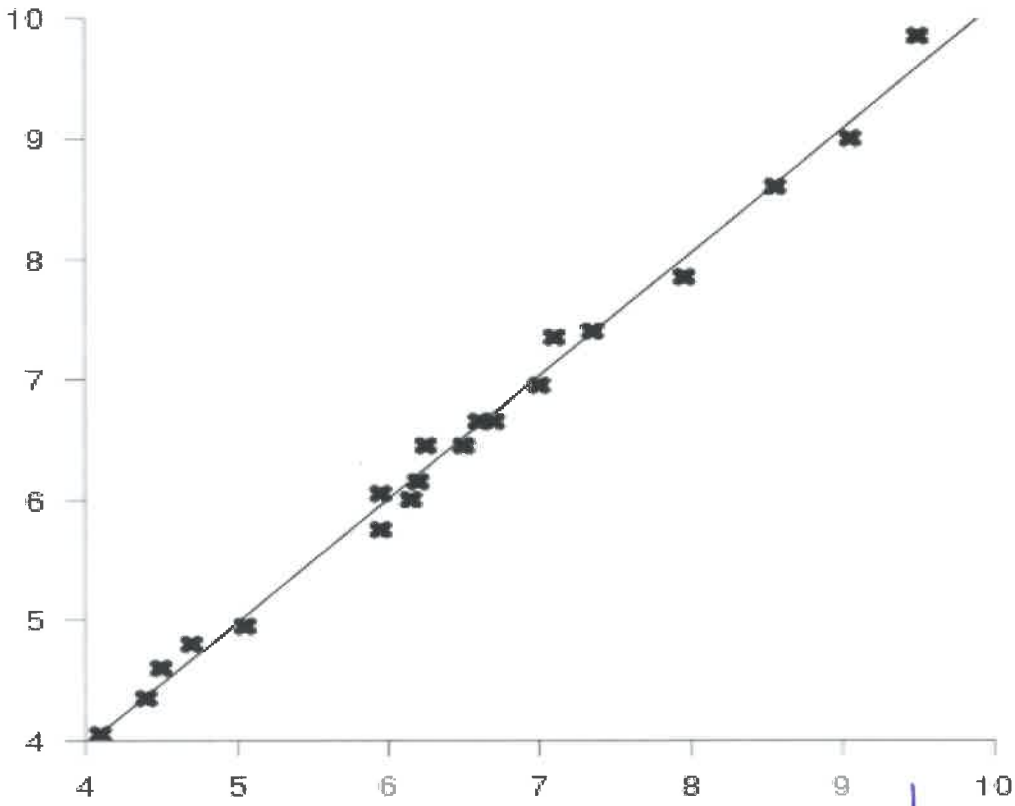
Mean x ($\bar{x}$): 6.4775

Mean y ($\bar{y}$): 6.495

Intercept (a): -0.14794078243381

Slope (b): 1.0255408386621

Regression line equation: y=1.0255408386621x-0.14794078243381



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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **WBC**

WBC ($10^3/\mu l$)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	4.8	X2	MEAN	Y1	Y2	MEAN		
1	7.5	7.3	7.4	7.3	7.4	7.35	0.68%	OK
2	4	4.1	4.05	4	4.2	4.1	1.22%	OK
3	6.7	6.6	6.65	6.6	6.6	6.6	0.76%	OK
4	6.1	6.2	6.15	6.1	6.3	6.2	0.81%	OK
5	4.8	4.8	4.8	4.8	4.6	4.7	2.13%	OK
6	6.4	6.5	6.45	6.3	6.2	6.25	3.20%	OK
7	9.7	10	9.85	9.6	9.4	9.5	3.68%	OK
8	6	6	6	6.2	6.1	6.15	2.44%	OK
9	7.4	7.3	7.35	7	7.2	7.1	3.52%	OK
10	7.9	7.8	7.85	7.9	8	7.95	1.26%	OK
11	4.6	4.6	4.6	4.6	4.4	4.5	2.22%	OK
12	8.6	8.6	8.6	8.4	8.7	8.55	0.58%	OK
13	8.9	9.1	9	9.1	9	9.05	0.55%	OK
14	5.9	6.2	6.05	5.9	6	5.95	1.68%	OK
15	4.3	4.4	4.35	4.5	4.3	4.4	1.14%	OK
16	6.7	6.6	6.65	6.8	6.6	6.7	0.75%	OK
17	6.9	7	6.95	7	7	7	0.71%	OK
18	5	4.9	4.95	5	5.1	5.05	1.98%	OK
19	6.4	6.5	6.45	6.6	6.4	6.5	0.77%	OK
20	5.7	5.8	5.75	6	5.9	5.95	3.36%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±7.5%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.996374282

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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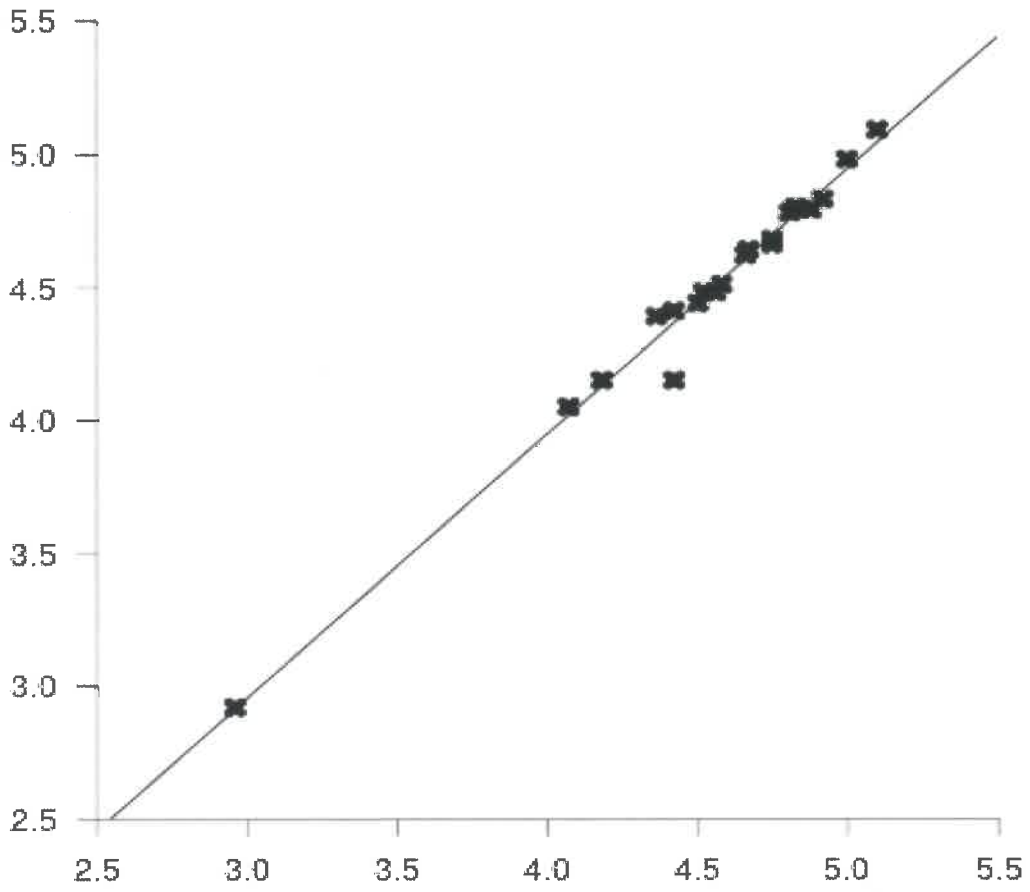
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): RBC

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.997

Sample size: 20
Mean x (x): 4.547
Mean y (y): 4.4925
Intercept (a): -0.030842625641106
Slope (b): 0.9947971466112
Regression line equation: y=0.9947971466112x-0.030842625641106



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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **RBC**

RBC (10^6/μl)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	X1	X2	MEAN	Y1	Y2	MEAN		
1	4.41	4.42	4.415	4.42	4.43	4.425	0.23%	OK
2	4.04	4.06	4.05	4.04	4.11	4.075	0.61%	OK
3	4.83	4.73	4.78	4.79	4.84	4.815	0.73%	OK
4	4.61	4.64	4.625	4.62	4.7	4.66	0.75%	OK
5	4.67	4.7	4.685	4.74	4.76	4.75	1.37%	OK
6	4.63	4.65	4.64	4.7	4.65	4.675	0.75%	OK
7	4.96	5	4.98	5.02	4.99	5.005	0.50%	OK
8	4.83	4.83	4.83	4.92	4.92	4.92	1.83%	OK
9	4.49	4.48	4.485	4.52	4.52	4.52	0.77%	OK
10	4.39	4.39	4.39	4.37	4.35	4.36	0.69%	OK
11	5.09	5.09	5.09	5.12	5.08	5.1	0.20%	OK
12	4.68	4.64	4.66	4.72	4.78	4.75	1.89%	OK
13	4.8	4.79	4.795	4.87	4.9	4.885	1.84%	OK
14	4.43	4.4	4.415	4.42	4.42	4.42	0.11%	OK
15	2.91	2.94	2.925	2.96	2.97	2.965	1.35%	OK
16	4.48	4.49	4.485	4.56	4.56	4.56	1.64%	OK
17	4.43	4.46	4.445	4.46	4.55	4.505	1.33%	OK
18	4.16	4.14	4.15	4.17	4.19	4.18	0.72%	OK
19	4.78	4.83	4.805	4.86	4.8	4.83	0.52%	OK
20	4.51	4.51	4.51	4.54	4.62	4.58	1.53%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±3%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.997694488

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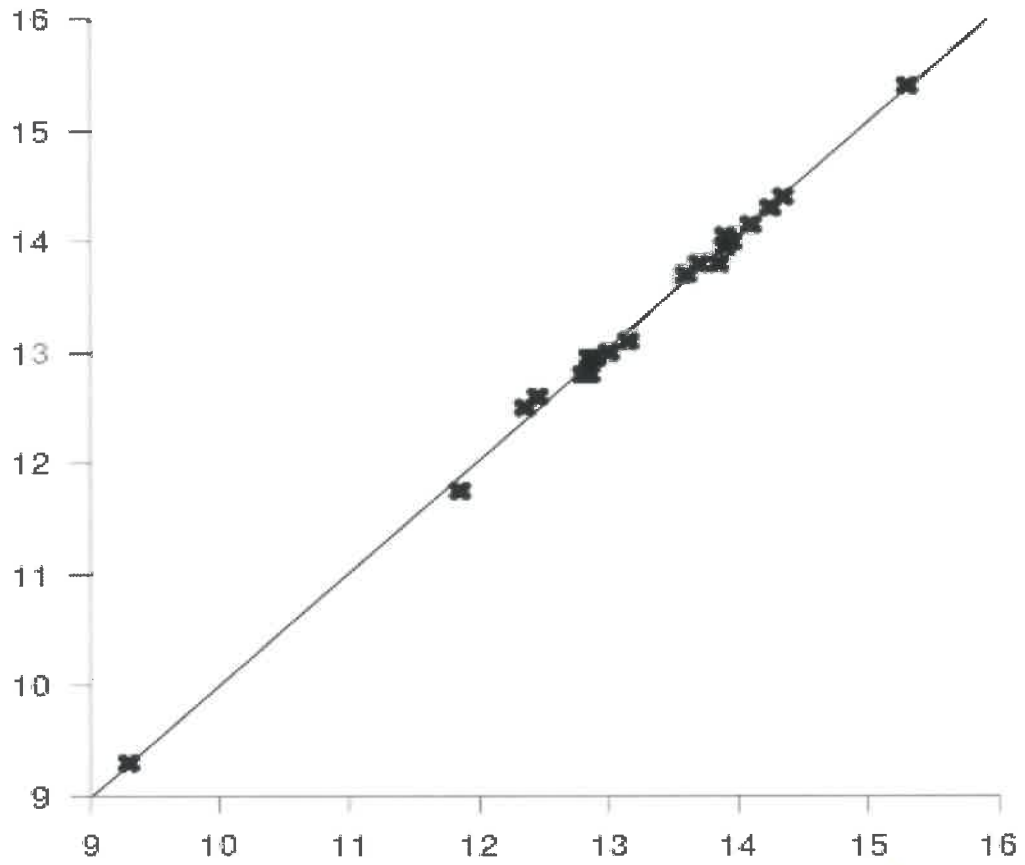
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): HGB

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.998

Sample size: 20
Mean x (x): 13.22
Mean y (y): 13.265
Intercept (a): -0.15970918349551
Slope (b): 1.0154848096441
Regression line equation: y=1.0154848096441x-0.15970918349551



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Specifications for Approval/Rejection of the Results: **HGB**

HGB (g/dl)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	13.8	X2	MEAN	Y1	Y2	MEAN		
1	13.1	13.1	13.1	13.1	13.2	13.15	0.38%	OK
2	12.8	12.8	12.8	12.8	12.9	12.85	0.39%	OK
3	13.8	13.8	13.8	13.8	13.9	13.85	0.36%	OK
4	12.5	12.5	12.5	12.3	12.4	12.35	1.21%	OK
5	13.8	13.8	13.8	13.7	13.7	13.7	0.73%	OK
6	14.2	14.1	14.15	14	14.2	14.1	0.35%	OK
7	15.4	15.4	15.4	15.3	15.3	15.3	0.65%	OK
8	14.4	14.4	14.4	14.4	14.3	14.35	0.35%	OK
9	13.7	13.7	13.7	13.6	13.6	13.6	0.74%	OK
10	13	12.9	12.95	12.9	12.9	12.9	0.39%	OK
11	14.3	14.3	14.3	14.3	14.2	14.25	0.35%	OK
12	14	14.1	14.05	13.9	13.9	13.9	1.08%	OK
13	12.8	12.8	12.8	12.8	12.8	12.8	0.00%	OK
14	12.6	12.6	12.6	12.4	12.5	12.45	1.20%	OK
15	9.3	9.3	9.3	9.3	9.3	9.3	0.00%	OK
16	13	12.9	12.95	12.9	12.8	12.85	0.78%	OK
17	14	14	14	13.9	14	13.95	0.36%	OK
18	11.8	11.7	11.75	11.9	11.8	11.85	0.84%	OK
19	13.9	14	13.95	13.9	13.9	13.9	0.36%	OK
20	13	13	13	13	13	13	0.00%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±3.5%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.998602996

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΝΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
Α.Φ.Μ. 801665150 - Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
ΤΗΛ.: 23820 82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

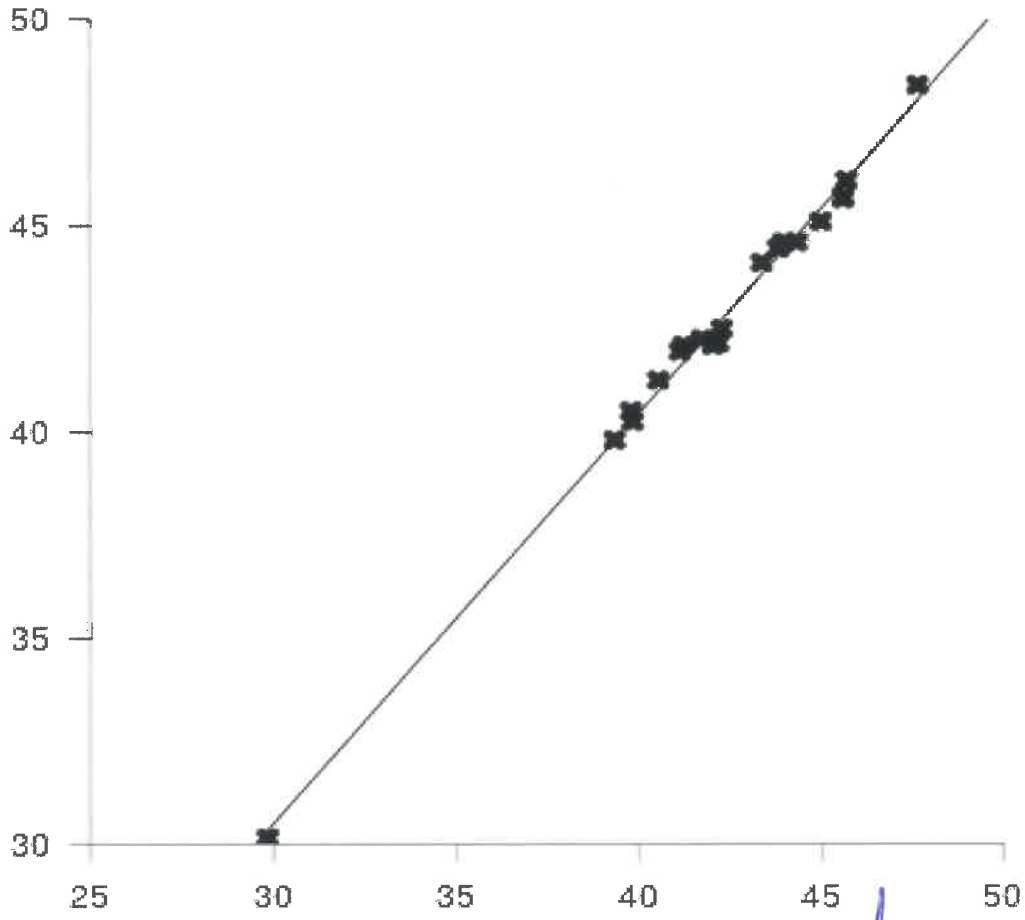
VANGUARD DIAGNOSTICS

Coefficient of Correlation ("r"): HCT

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.997

Sample size: 20
Mean x (x): 42.2625
Mean y (y): 42.685
Intercept (a): 0.65268384117497
Slope (b): 0.99455347314582
Regression line equation: y=0.65268384117497+0.99455347314582x



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **HCT**

HCT (%)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	44.7	X2	MEAN	Y1	Y2	MEAN		
1	41.9	42	41.95	41	41.3	41.15	1.94%	OK
2	40.1	40.4	40.25	39.6	40.1	39.85	1.00%	OK
3	44.6	43.6	44.1	43.2	43.6	43.4	1.61%	OK
4	40.4	40.6	40.5	39.5	40.1	39.8	1.76%	OK
5	44.5	44.7	44.6	44.3	44.4	44.35	0.56%	OK
6	46.1	46.1	46.1	45.9	45.5	45.7	0.88%	OK
7	48.3	48.5	48.4	47.9	47.4	47.65	1.57%	OK
8	45.7	45.6	45.65	45.5	45.7	45.6	0.11%	OK
9	42.3	42.2	42.25	41.8	41.7	41.75	1.20%	OK
10	42.2	42	42.1	41.4	41.1	41.25	2.06%	OK
11	44.6	44.6	44.6	44.1	43.9	44	1.36%	OK
12	45.9	45.5	45.7	45.5	45.7	45.6	0.22%	OK
13	42.1	42.1	42.1	42	42.1	42.05	0.12%	OK
14	41.4	41.1	41.25	40.7	40.4	40.55	1.73%	OK
15	30	30.3	30.15	29.8	29.9	29.85	1.01%	OK
16	42.2	42.1	42.15	42.2	42.2	42.2	0.12%	OK
17	45	45.2	45.1	44.5	45.5	45	0.22%	OK
18	40	39.6	39.8	39.2	39.5	39.35	1.14%	OK
19	44.2	44.7	44.45	44.1	43.6	43.85	1.37%	OK
20	42.5	42.5	42.5	42	42.6	42.3	0.47%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±3.5%
Conclusion	Pass							

Coefficient of Correlation ("r")

0.99733421

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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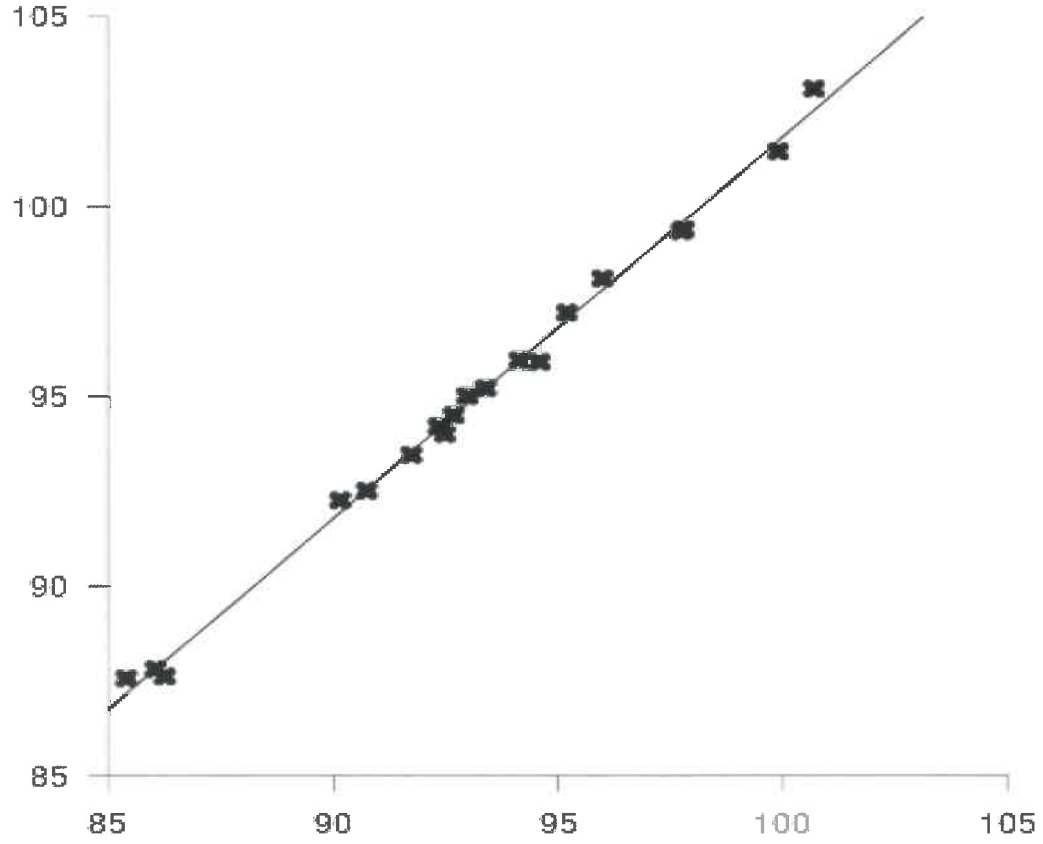
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): MCV

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.997

Sample size: 20
Mean x (x): 93.14
Mean y (y): 94.935
Intercept (a): 1.3081709571747
Slope (b): 1.0052268525105
Regression line equation: y=1.3081709571747+1.0052268525105x



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **MCV**

MCV (fL)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	95.1	X2	MEAN	Y1	Y2	MEAN		
1	95	95	95	92.8	93.2	93	2.15%	OK
2	99.3	99.5	99.4	98	97.6	97.8	1.64%	OK
3	92.3	92.2	92.25	90.2	90.1	90.15	2.33%	OK
4	87.6	87.5	87.55	85.5	85.3	85.4	2.52%	OK
5	95.3	95.1	95.2	93.5	93.3	93.4	1.93%	OK
6	99.6	99.1	99.35	97.7	97.8	97.75	1.64%	OK
7	97.4	97	97.2	95.4	95	95.2	2.10%	OK
8	94.6	94.4	94.5	92.5	92.9	92.7	1.94%	OK
9	94.2	94.2	94.2	92.5	92.3	92.4	1.95%	OK
10	96.1	95.7	95.9	94.7	94.5	94.6	1.37%	OK
11	87.6	87.6	87.6	86.1	86.4	86.25	1.57%	OK
12	98.1	98.1	98.1	96.4	95.6	96	2.19%	OK
13	87.7	87.9	87.8	86.2	85.9	86.05	2.03%	OK
14	93.5	93.4	93.45	92.1	91.4	91.75	1.85%	OK
15	103.1	103.1	103.1	100.7	100.7	100.7	2.38%	OK
16	94.2	93.8	94	92.5	92.5	92.5	1.62%	OK
17	101.6	101.3	101.45	99.8	100	99.9	1.55%	OK
18	96.2	95.7	95.95	94	94.3	94.15	1.91%	OK
19	92.5	92.5	92.5	90.7	90.8	90.75	1.93%	OK
20	94.2	94.2	94.2	92.5	92.2	92.35	2.00%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±3.5%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.99796742

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΤΗΛ : 23820 82999 - 6945433450
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

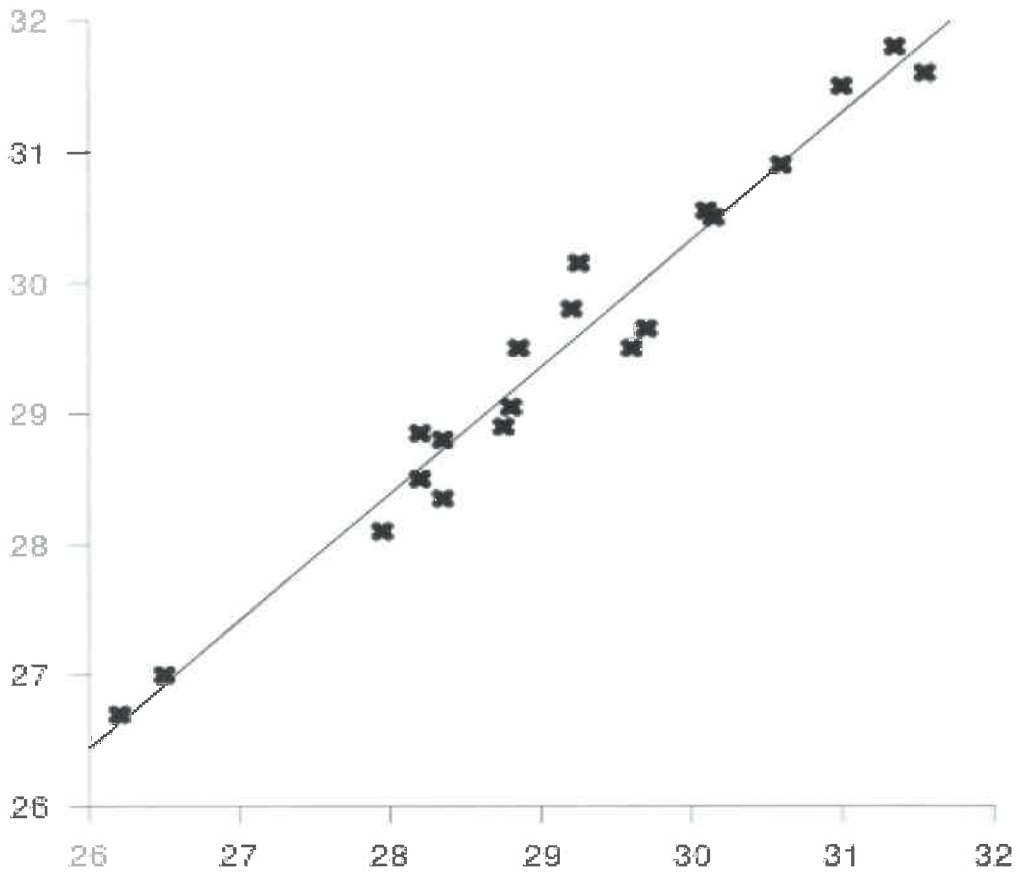
VANGUARD DIAGNOSTICS

Coefficient of Correlation ("r"): MCH

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.985

Sample size: 20
Mean x (x): 29.1325
Mean y (y): 29.485
Intercept (a): 1.2203628575335
Slope (b): 0.97020980494178
Regression line equation: y=1.2203628575335+0.97020980494178x



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **MCH**

MCH (pg)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	29.4	X2	MEAN	Y1	Y2	MEAN		
1	29.7	29.6	29.65	29.6	29.8	29.7	0.17%	OK
2	31.7	31.5	31.6	31.7	31.4	31.55	0.16%	OK
3	28.6	29.2	28.9	28.8	28.7	28.75	0.52%	OK
4	27.1	26.9	27	26.6	26.4	26.5	1.89%	OK
5	29.6	29.4	29.5	28.9	28.8	28.85	2.25%	OK
6	30.7	30.3	30.5	29.8	30.5	30.15	1.16%	OK
7	31	30.8	30.9	30.5	30.7	30.6	0.98%	OK
8	29.8	29.8	29.8	29.3	29.1	29.2	2.05%	OK
9	30.5	30.6	30.55	30.1	30.1	30.1	1.50%	OK
10	29.6	29.4	29.5	29.5	29.7	29.6	0.34%	OK
11	28.1	28.1	28.1	27.9	28	27.95	0.54%	OK
12	29.9	30.4	30.15	29.4	29.1	29.25	3.08%	OK
13	26.7	26.7	26.7	26.3	26.1	26.2	1.91%	OK
14	28.4	28.6	28.5	28.1	28.3	28.2	1.06%	OK
15	32	31.6	31.8	31.4	31.3	31.35	1.44%	OK
16	29	28.7	28.85	28.3	28.1	28.2	2.30%	OK
17	31.6	31.4	31.5	31.2	30.8	31	1.61%	OK
18	28.4	28.3	28.35	28.5	28.2	28.35	0.00%	OK
19	29.1	29	29.05	28.6	29	28.8	0.87%	OK
20	28.8	28.8	28.8	28.6	28.1	28.35	1.59%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±7.5%
Conclusion			Pass					

Coefficient of Correlation ("r")

0.985200218

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΤΗΛ : 23820 82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

VANGUARD DIAGNOSTICS

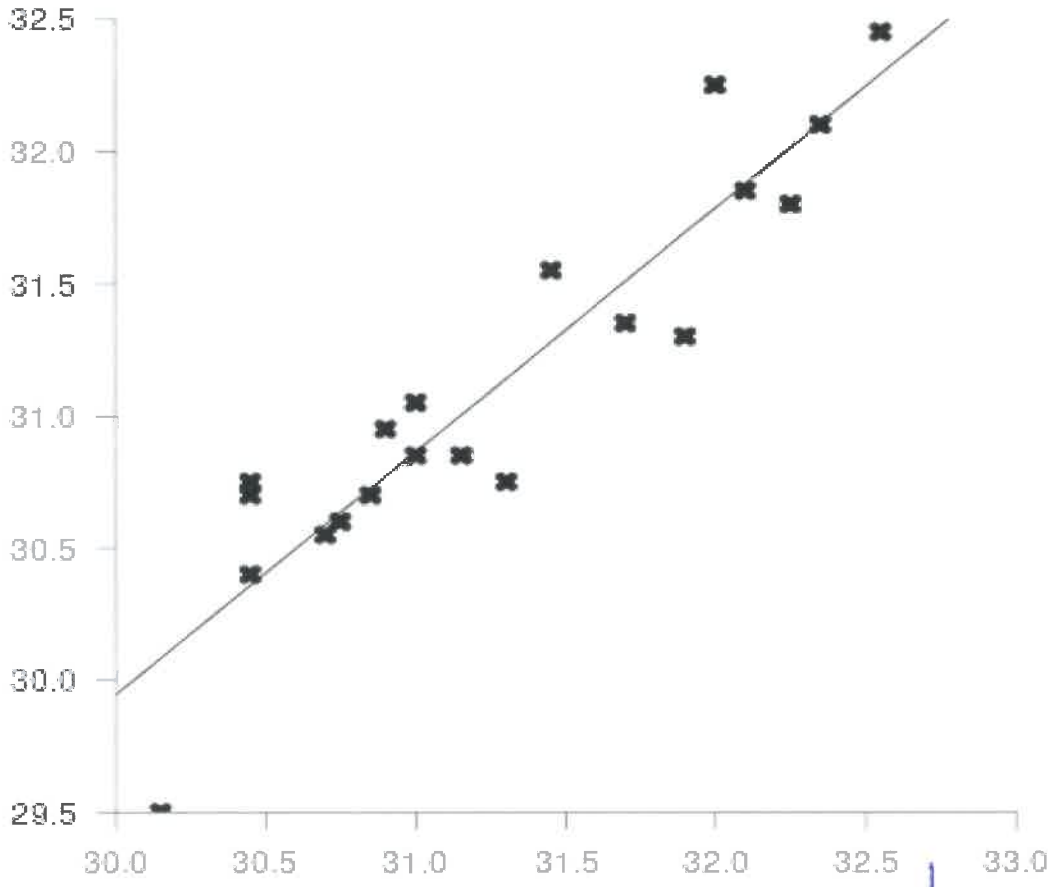
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): MCHC

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.929

Sample size: 20
Mean x (x): 31.2725
Mean y (y): 31.115
Intercept (a): 2.3403211003193
Slope (b): 0.92012723318189
Regression line equation: y=2.3403211003193+0.92012723318189x



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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Specifications for Approval/Rejection of the Results: **MCHC**

MCHC (g/dl)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	30.9	X2	MEAN	Y1	Y2	MEAN		
1	31.3	31.2	31.25	32	32	32	2.34%	OK
2	31.9	31.7	31.8	32.3	32.2	32.25	1.40%	OK
3	30.9	31.7	31.3	31.9	31.9	31.9	1.88%	OK
4	30.9	30.8	30.85	31.1	30.9	31	0.48%	OK
5	31	30.9	30.95	30.9	30.9	30.9	0.16%	OK
6	30.8	30.6	30.7	30.5	31.2	30.85	0.49%	OK
7	31.9	31.8	31.85	31.9	32.3	32.1	0.78%	OK
8	31.5	31.6	31.55	31.6	31.3	31.45	0.32%	OK
9	32.4	32.5	32.45	32.5	32.6	32.55	0.31%	OK
10	30.8	30.7	30.75	31.2	31.4	31.3	1.76%	OK
11	32.1	32.1	32.1	32.4	32.3	32.35	0.77%	OK
12	30.5	31	30.75	30.5	30.4	30.45	0.99%	OK
13	30.4	30.4	30.4	30.5	30.4	30.45	0.16%	OK
14	30.4	30.7	30.55	30.5	30.9	30.7	0.49%	OK
15	31	30.7	30.85	31.2	31.1	31.15	0.96%	OK
16	30.8	30.6	30.7	30.6	30.3	30.45	0.82%	OK
17	31.1	31	31.05	31.2	30.8	31	0.16%	OK
18	29.5	29.5	29.5	30.4	29.9	30.15	2.16%	OK
19	31.4	31.3	31.35	31.5	31.9	31.7	1.10%	OK
20	30.6	30.6	30.6	31	30.5	30.75	0.49%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±7.5%
Conclusion	Pass							

Coefficient of Correlation ("r")

0.929152768

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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VANGUARD DIAGNOSTICS

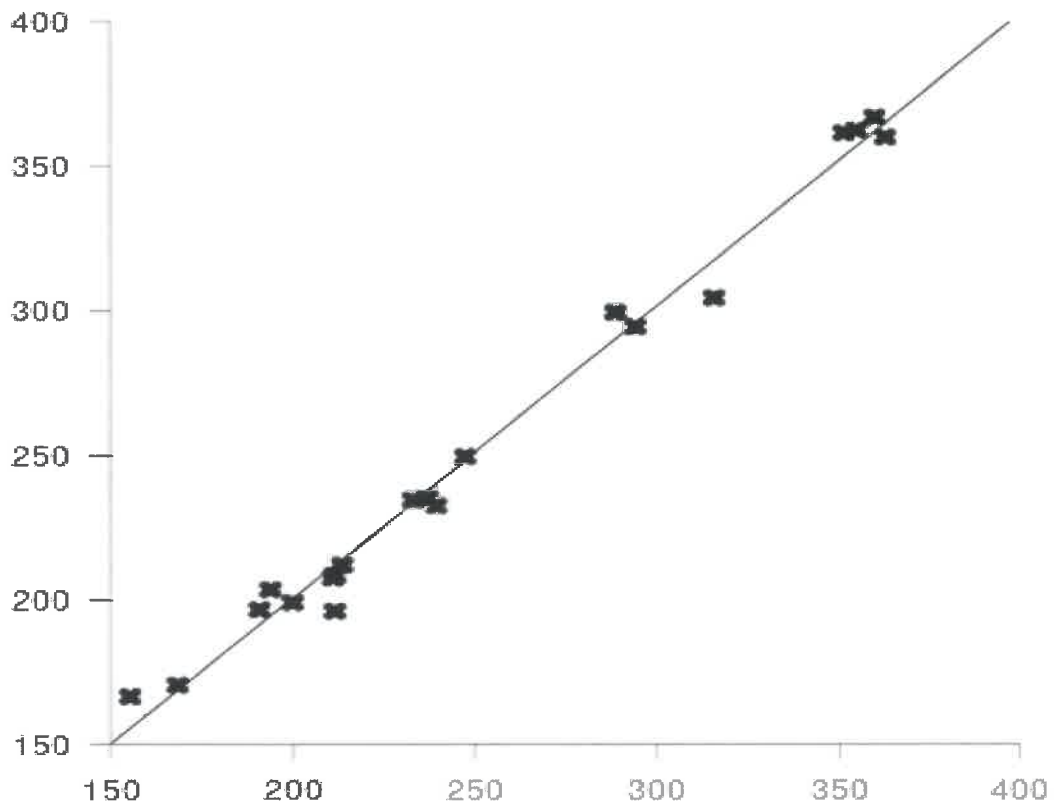
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): PLT

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.993

Sample size: 20
Mean x (x): 252.125
Mean y (y): 253.05
Intercept (a): -1.470960058616
Slope (b): 1.0095030641889
Regression line equation: y=1.0095030641889x-1.470960058616



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **PLT**

PLT ($10^3/\mu l$)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostic			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	186	X2	MEAN	Y1	Y2	MEAN		
1	351	372	361.5	342	361	351.5	2.84%	OK
2	170	171	170.5	164	173	168.5	1.19%	OK
3	252	247	249.5	246	249	247.5	0.81%	OK
4	309	300	304.5	314	318	316	3.64%	OK
5	207	186	196.5	192	190	191	2.88%	OK
6	234	236	235	245	229	237	0.84%	OK
7	189	203	196	212	211	211.5	7.33%	OK
8	356	364	360	370	356	363	0.83%	OK
9	170	163	166.5	159	152	155.5	7.07%	OK
10	300	289	294.5	290	299	294.5	0.00%	OK
11	208	207	207.5	211	211	211	1.66%	OK
12	212	205	208.5	213	210	211.5	1.42%	OK
13	360	365	362.5	350	360	355	2.11%	OK
14	199	199	199	199	201	200	0.50%	OK
15	375	359	367	357	363	360	1.94%	OK
16	210	214	212	221	206	213.5	0.70%	OK
17	294	305	299.5	285	293	289	3.63%	OK
18	205	202	203.5	188	200	194	4.90%	OK
19	223	242	232.5	253	226	239.5	2.92%	OK
20	243	226	234.5	232	234	233	0.64%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		≤±12.5%
Conclusion			Pass					

Coefficient of Correlation ("r")

0.993856943

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
Α.Φ.Μ. 801665151 - Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
ΤΗΛ.: 23820 82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

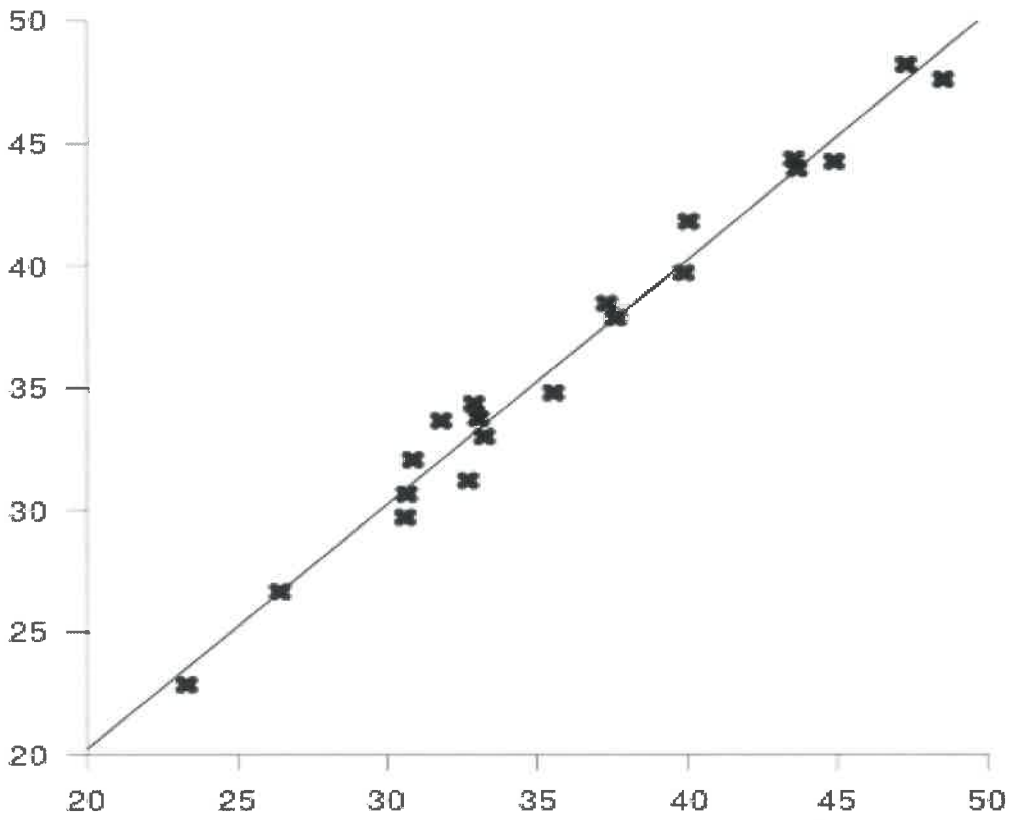
VANGUARD DIAGNOSTICS

Coefficient of Correlation ("r"): LYM%

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.990

Sample size: 20
Mean x (x): 36.1875
Mean y (y): 36.44
Intercept (a): 0.17234969720545
Slope (b): 1.0022148615625
Regression line equation: y=0.17234969720545+1.0022148615625x



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **LYM%**

LYM (%)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	33.3	X2	MEAN	Y1	Y2	MEAN		
1	30.7	28.7	29.7	29.9	31.3	30.6	2.94%	OK
2	32.3	31.8	32.05	31.5	30.2	30.85	3.89%	OK
3	39.8	39.6	39.7	39.4	40.3	39.85	0.38%	OK
4	34.7	32.6	33.65	32	31.6	31.8	5.82%	OK
5	36.3	33.3	34.8	36.4	34.7	35.55	2.11%	OK
6	31.7	30.7	31.2	32	33.4	32.7	4.59%	OK
7	34	32	33	33.8	32.7	33.25	0.75%	OK
8	34.9	33.8	34.35	34	31.8	32.9	4.41%	OK
9	34.4	33.1	33.75	32.9	33.2	33.05	2.12%	OK
10	22.9	22.8	22.85	23.1	23.5	23.3	1.93%	OK
11	37.2	39.7	38.45	37	37.6	37.3	3.08%	OK
12	47.7	47.5	47.6	49	48.1	48.55	1.96%	OK
13	38.1	37.6	37.85	37.7	37.5	37.6	0.66%	OK
14	42.9	45	43.95	45.3	42	43.65	0.69%	OK
15	49	47.4	48.2	46.9	47.7	47.3	1.90%	OK
16	44	44.7	44.35	43.1	44	43.55	1.84%	OK
17	27.6	25.7	26.65	26.2	26.6	26.4	0.95%	OK
18	30	31.3	30.65	30.2	31.1	30.65	0.00%	OK
19	43.9	39.7	41.8	39.9	40.1	40	4.50%	OK
20	44.6	43.9	44.25	45.3	44.5	44.9	1.45%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±7.5%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.990963562

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
Α.Φ.Μ. 801665151 - Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
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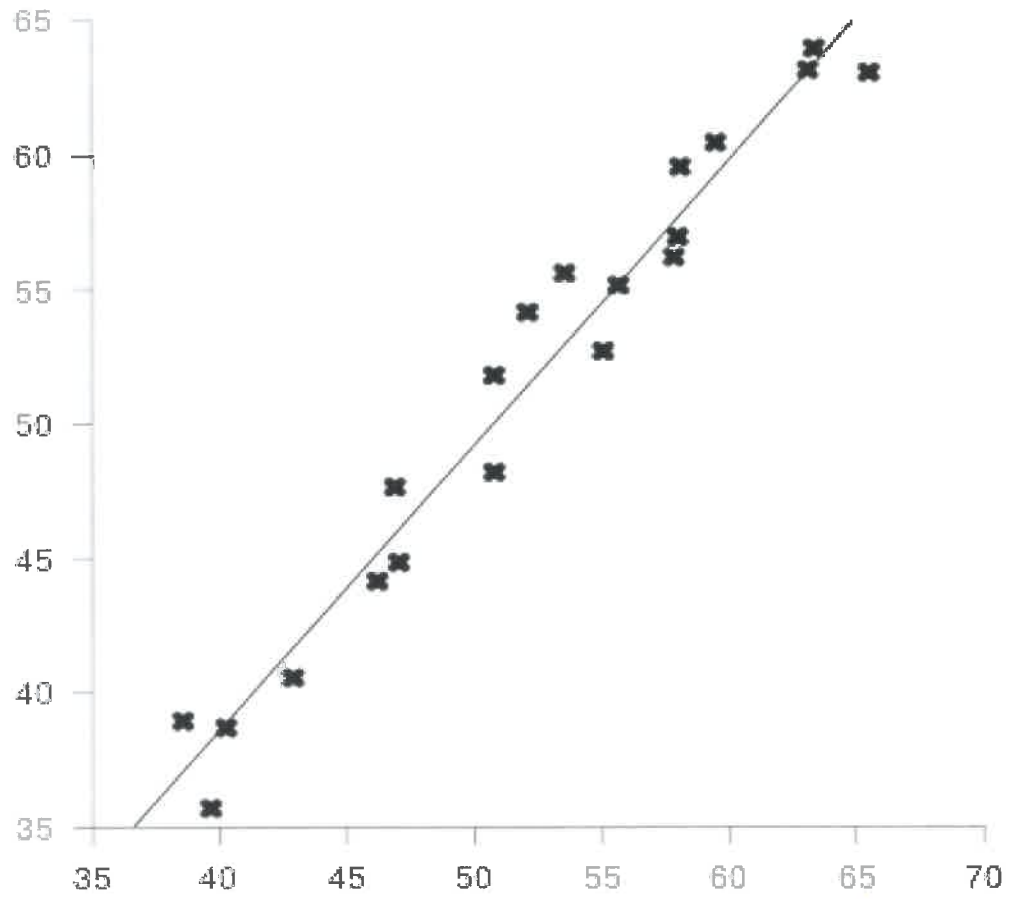
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): NEUT%

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.979

Sample size: 20
Mean x (x): 52.25
Mean y (y): 51.5725
Intercept (a): -3.7326370309102
Slope (b): 1.0584715221227
Regression line equation: y=1.0584715221227x-3.7326370309102



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΤΗΛ : 23820 82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **NEUT%**

NEUT (%)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	54.5	X2	MEAN	Y1	Y2	MEAN		
1	67	59.3	63.15	63.1	63.9	63.5	0.55%	OK
2	58	54.4	56.2	57.3	58.4	57.85	2.85%	OK
3	47.1	48.2	47.65	48.3	45.5	46.9	1.60%	OK
4	55.5	58.4	56.95	58.3	57.7	58	1.81%	OK
5	53.8	54.5	54.15	51.9	52.3	52.1	3.93%	OK
6	54.5	55.8	55.15	56.1	55.2	55.65	0.90%	OK
7	59.8	61.1	60.45	59	60	59.5	1.60%	OK
8	48.1	48.3	48.2	48.3	53.3	50.8	5.12%	OK
9	58.1	61	59.55	58.4	57.8	58.1	2.50%	OK
10	60.5	65.6	63.05	66.6	64.5	65.55	3.81%	OK
11	51.1	52.5	51.8	51.4	50.2	50.8	1.97%	OK
12	39	38.4	38.7	40.5	40	40.25	3.85%	OK
13	53.4	57.8	55.6	54.3	52.8	53.55	3.83%	OK
14	37.9	33.5	35.7	40.4	38.9	39.65	9.96%	NO
15	44.5	36.6	40.55	44.4	41.4	42.9	5.48%	OK
16	43.8	45.9	44.85	46.7	47.4	47.05	4.68%	OK
17	64.7	63.2	63.95	63.6	63.2	63.4	0.87%	OK
18	55.2	50.2	52.7	54.2	55.9	55.05	4.27%	OK
19	43	45.3	44.15	46.2	46.2	46.2	4.44%	OK
20	39.8	38.1	38.95	37.1	40	38.55	1.04%	OK
Passing Number		19	Passing Rate		95.0%	Requirement		<±7.5%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.979367058

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
Α.Φ.Μ. 801665151 - Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
ΤΗΛ.: 23820 82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

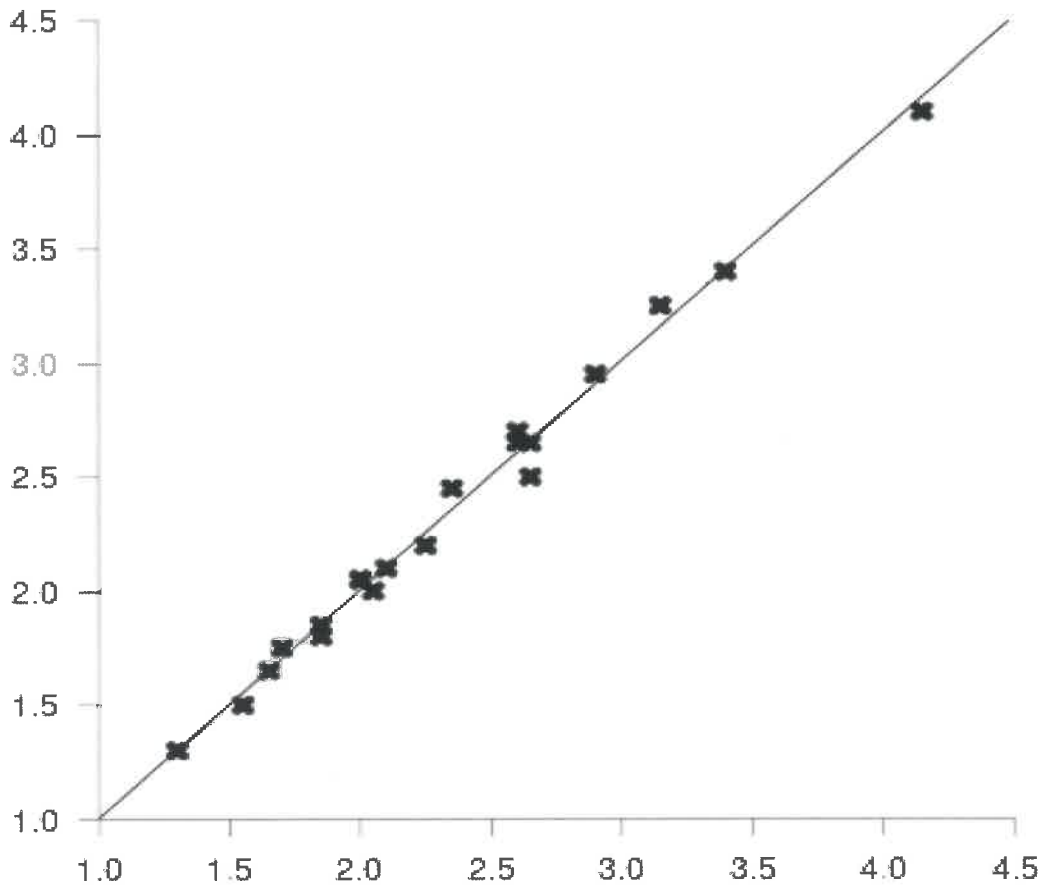
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): LYM#

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.995

Sample size: 20
Mean x (x): 2.3375
Mean y (y): 2.345
Intercept (a): -4.7817473798339E-6
Slope (b): 1.0032106018171
Regression line equation: y=1.0032106018171x-4.7817473798339E-6



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **LYM#**

LYM# ($10^3/\mu l$)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.
2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostic			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	1.6	X2	MEAN	Y1	Y2	MEAN		
1	2.3	2.1	2.2	2.2	2.3	2.25	2.22%	OK
2	1.3	1.3	1.3	1.3	1.3	1.3	0.00%	OK
3	2.7	2.6	2.65	2.6	2.7	2.65	0.00%	OK
4	2.1	2	2.05	2	2	2	2.50%	OK
5	1.7	1.6	1.65	1.7	1.6	1.65	0.00%	OK
6	2	2	2	2	2.1	2.05	2.44%	OK
7	3.3	3.2	3.25	3.2	3.1	3.15	3.17%	OK
8	2.1	2	2.05	2.1	1.9	2	2.50%	OK
9	2.5	2.4	2.45	2.3	2.4	2.35	4.26%	OK
10	1.8	1.8	1.8	1.8	1.9	1.85	2.70%	OK
11	1.7	1.8	1.75	1.7	1.7	1.7	2.94%	OK
12	4.1	4.1	4.1	4.1	4.2	4.15	1.20%	OK
13	3.4	3.4	3.4	3.4	3.4	3.4	0.00%	OK
14	2.5	2.8	2.65	2.7	2.5	2.6	1.92%	OK
15	2.1	2.1	2.1	2.1	2.1	2.1	0.00%	OK
16	2.9	3	2.95	2.9	2.9	2.9	1.72%	OK
17	1.9	1.8	1.85	1.8	1.9	1.85	0.00%	OK
18	1.5	1.5	1.5	1.5	1.6	1.55	3.23%	OK
19	2.8	2.6	2.7	2.6	2.6	2.6	3.85%	OK
20	2.5	2.5	2.5	2.7	2.6	2.65	5.66%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±7.5%
Conclusion	Pass							

Coefficient of Correlation ("r")
0.995494594

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
Α.Φ.Μ. 801665151 - Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
ΤΗΛ.: 23820 82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

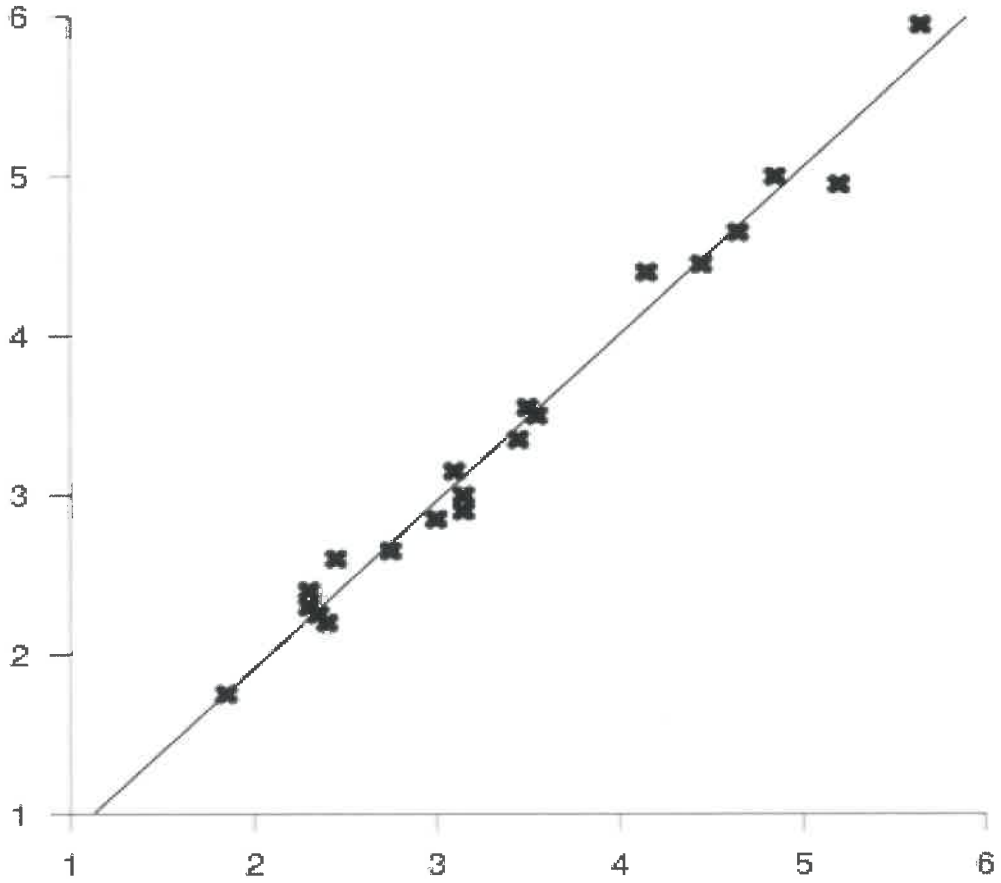
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): NEUT#

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.990

Sample size: 20
Mean x (x): 3.4125
Mean y (y): 3.3925
Intercept (a): -0.17998934469899
Slope (b): 1.0468833244539
Regression line equation: y=1.0468833244539x-0.17998934469899



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

Specifications for Approval/Rejection of the Results: **NEUT#**

NEUT# ($10^3/\mu l$)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	2.6	X2	MEAN	Y1	Y2	MEAN		
1	5	4.3	4.65	4.6	4.7	4.65	0.00%	OK
2	2.3	2.2	2.25	2.3	2.4	2.35	4.26%	OK
3	3.1	3.2	3.15	3.2	3	3.1	1.61%	OK
4	3.4	3.6	3.5	3.5	3.6	3.55	1.41%	OK
5	2.6	2.6	2.6	2.5	2.4	2.45	6.12%	OK
6	3.5	3.6	3.55	3.6	3.4	3.5	1.43%	OK
7	5.8	6.1	5.95	5.7	5.6	5.65	5.31%	OK
8	2.9	2.9	2.9	3	3.3	3.15	7.94%	NO
9	4.3	4.5	4.4	4.1	4.2	4.15	6.02%	OK
10	4.8	5.1	4.95	5.3	5.1	5.2	4.81%	OK
11	2.4	2.4	2.4	2.4	2.2	2.3	4.35%	OK
12	3.4	3.3	3.35	3.4	3.5	3.45	2.90%	OK
13	4.7	5.3	5	5	4.7	4.85	3.09%	OK
14	2.3	2.1	2.2	2.4	2.4	2.4	8.33%	NO
15	1.9	1.6	1.75	2	1.7	1.85	5.41%	OK
16	3	3	3	3.2	3.1	3.15	4.76%	OK
17	4.5	4.4	4.45	4.5	4.4	4.45	0.00%	OK
18	2.8	2.5	2.65	2.7	2.8	2.75	3.64%	OK
19	2.8	2.9	2.85	3.1	2.9	3	5.00%	OK
20	2.3	2.3	2.3	2.2	2.4	2.3	0.00%	OK
Passing Number		18	Passing Rate		90.0%	Requirement		<±7.5%
Conclusion			Pass					

Coefficient of Correlation ("r")

0.990722398

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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Α.Φ.Μ. 801665151 Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
ΤΗΛ.: 23820-82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

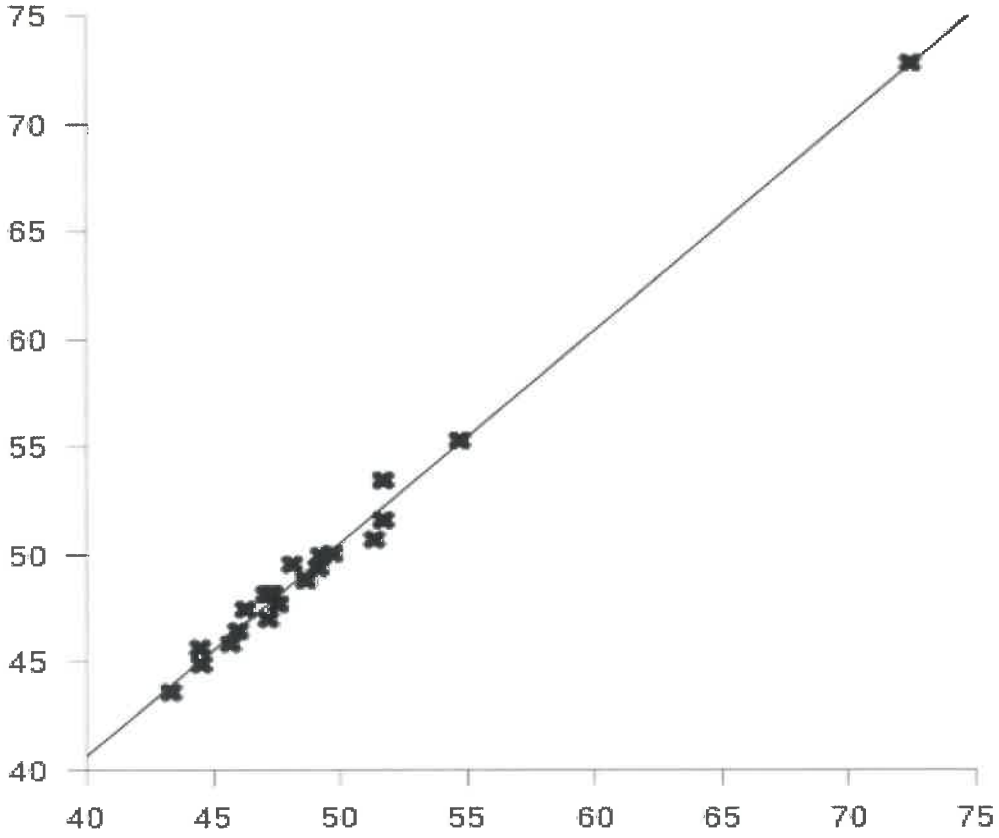
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): RDW-SD

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.996

Sample size: 20
Mean x (x): 49.295
Mean y (y): 49.8275
Intercept (a): 1.0534469165561
Slope (b): 0.98943205362499
Regression line equation: y=1.0534469165561+0.98943205362499x



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΤΗΛ.: 23820 82999 - 6945433450
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **RDW-SD**

RDW-SD (fL)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	48.3	X2	MEAN	Y1	Y2	MEAN		
1	49.7	49.4	49.55	48.2	48	48.1	3.01%	OK
2	47.7	47.7	47.7	48.3	46.8	47.55	0.32%	OK
3	45.9	45.4	45.65	43.7	45.2	44.45	2.70%	OK
4	44.1	43.1	43.6	43.4	43.2	43.3	0.69%	OK
5	49.3	48.3	48.8	48.8	48.5	48.65	0.31%	OK
6	51.4	50	50.7	51	51.7	51.35	1.27%	OK
7	46.4	47.6	47	47.1	47.2	47.15	0.32%	OK
8	46.4	46.5	46.45	46	45.9	45.95	1.09%	OK
9	44.8	45	44.9	44.8	44.2	44.5	0.90%	OK
10	49	47.4	48.2	47.8	46.8	47.3	1.90%	OK
11	47.4	47.5	47.45	46	46.5	46.25	2.59%	OK
12	49.4	50.5	49.95	49	49.5	49.25	1.42%	OK
13	55.3	55.3	55.3	54.4	55	54.7	1.10%	OK
14	48.2	48.1	48.15	47.5	46.6	47.05	2.34%	OK
15	72.2	73.4	72.8	72.9	72	72.45	0.48%	OK
16	49.6	49.2	49.4	50.2	48.1	49.15	0.51%	OK
17	51.8	51.4	51.6	51.6	51.8	51.7	0.19%	OK
18	53.8	53.1	53.45	51.8	51.6	51.7	3.38%	OK
19	45.4	46.3	45.85	46.5	44.8	45.65	0.44%	OK
20	50.1	50	50.05	49	50.4	49.7	0.70%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±7.5%
Conclusion			Pass					

Coefficient of Correlation ("r")

0.996065486

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
Α.Φ.Μ. 801665151 - Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
ΤΗΛ.: 23820 82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

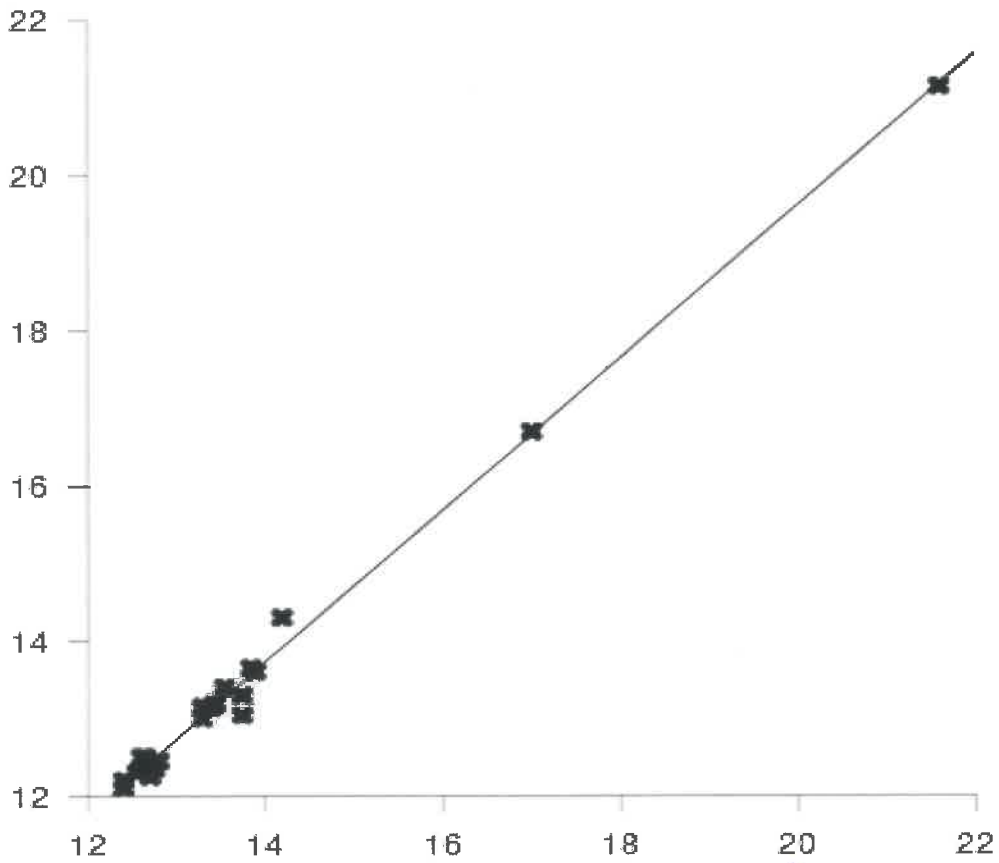
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): RDW-CV%

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.997

Sample size: 20
Mean x (x): 13.795
Mean y (y): 13.515
Intercept (a): -0.045767217112564
Slope (b): 0.9830204579277
Regression line equation: y=0.9830204579277x-0.045767217112564



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **RDW-CV**

RDW-CV (%)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	13.2	X2	MEAN	Y1	Y2	MEAN		
1	13.4	13.4	13.4	13.6	13.5	13.55	1.11%	OK
2	12	12.2	12.1	12.5	12.3	12.4	2.42%	OK
3	12.7	12.3	12.5	12.5	12.7	12.6	0.79%	OK
4	12.4	12.5	12.45	12.8	12.8	12.8	2.73%	OK
5	13.2	13.2	13.2	13.5	13.4	13.45	1.86%	OK
6	13.1	13	13.05	13.7	13.8	13.75	5.09%	OK
7	12.1	12.4	12.25	12.6	12.8	12.7	3.54%	OK
8	12.3	12.3	12.3	12.6	12.5	12.55	1.99%	OK
9	12.1	12.3	12.2	12.4	12.4	12.4	1.61%	OK
10	12.6	12.4	12.5	12.8	12.5	12.65	1.19%	OK
11	13.6	13.6	13.6	14	13.8	13.9	2.16%	OK
12	13	13.3	13.15	13.2	13.4	13.3	1.13%	OK
13	16.7	16.7	16.7	17	17	17	1.76%	OK
14	13	13.3	13.15	13.6	13.2	13.4	1.87%	OK
15	21	21.3	21.15	21.6	21.6	21.6	2.08%	OK
16	13.5	13.1	13.3	13.9	13.6	13.75	3.27%	OK
17	13	13	13	13.3	13.3	13.3	2.26%	OK
18	14.2	14.4	14.3	14.1	14.3	14.2	0.70%	OK
19	12.3	12.4	12.35	12.8	12.7	12.75	3.14%	OK
20	13.5	13.8	13.65	13.7	14	13.85	1.44%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±7.5%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.997006528

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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VANGUARD DIAGNOSTICS

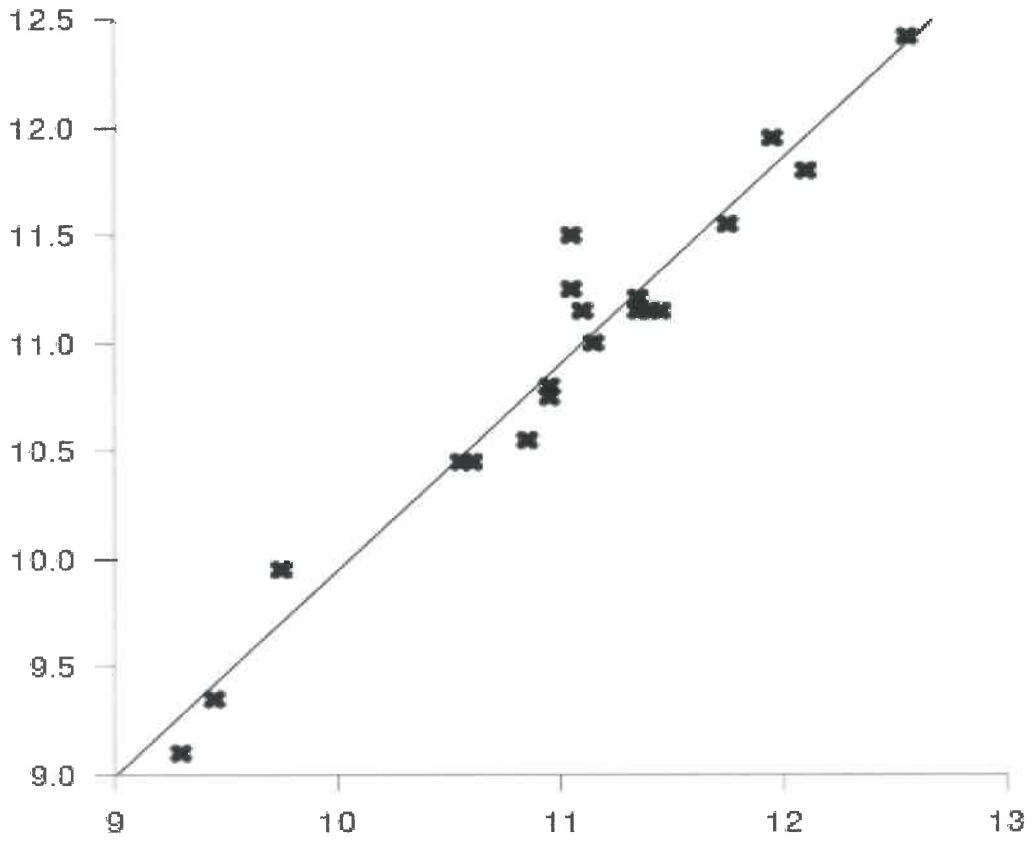
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): MPV

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.971

Sample size: 20
Mean x (x): 11.0325
Mean y (y): 10.934
Intercept (a): 0.36505865541512
Slope (b): 0.95798244682392
Regression line equation: y=0.36505865541512+0.95798244682392x



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **MPV**

MPV (fL)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	11	X2	MEAN	Y1	Y2	MEAN		
1	9.8	9.7	9.75	9.9	10	9.95	2.01%	OK
2	12.2	12.2	12.2	12.6	12.5	12.55	2.79%	OK
3	10.8	10.5	10.65	11.1	11	11.05	3.62%	OK
4	10.8	10.8	10.8	10.9	11	10.95	1.37%	OK
5	11.2	11	11.1	11.4	11.3	11.35	2.20%	OK
6	11.1	11.2	11.15	11.3	11.5	11.4	2.19%	OK
7	11.1	11.2	11.15	11.3	11.4	11.35	1.76%	OK
8	9.1	9.1	9.1	9.3	9.3	9.3	2.15%	OK
9	11.2	11.1	11.15	11.4	10.8	11.1	0.45%	OK
10	10.4	10.5	10.45	10.6	10.5	10.55	0.95%	OK
11	9	9.2	9.1	9.3	9.6	9.45	3.70%	OK
12	11.1	10.9	11	11.2	11.1	11.15	1.35%	OK
13	11.1	11.2	11.15	11.5	11.4	11.45	2.62%	OK
14	11.9	12	11.95	11.6	12.3	11.95	0.00%	OK
15	11.7	11.3	11.5	11.3	10.8	11.05	4.07%	OK
16	11.5	11.6	11.55	11.7	11.8	11.75	1.70%	OK
17	10.5	10.4	10.45	10.7	10.5	10.6	1.42%	OK
18	11.6	12	11.8	12.1	12.1	12.1	2.48%	OK
19	10.8	10.7	10.75	10.8	11.1	10.95	1.83%	OK
20	10.5	10.6	10.55	10.8	10.9	10.85	2.76%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±7.5%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.971939222

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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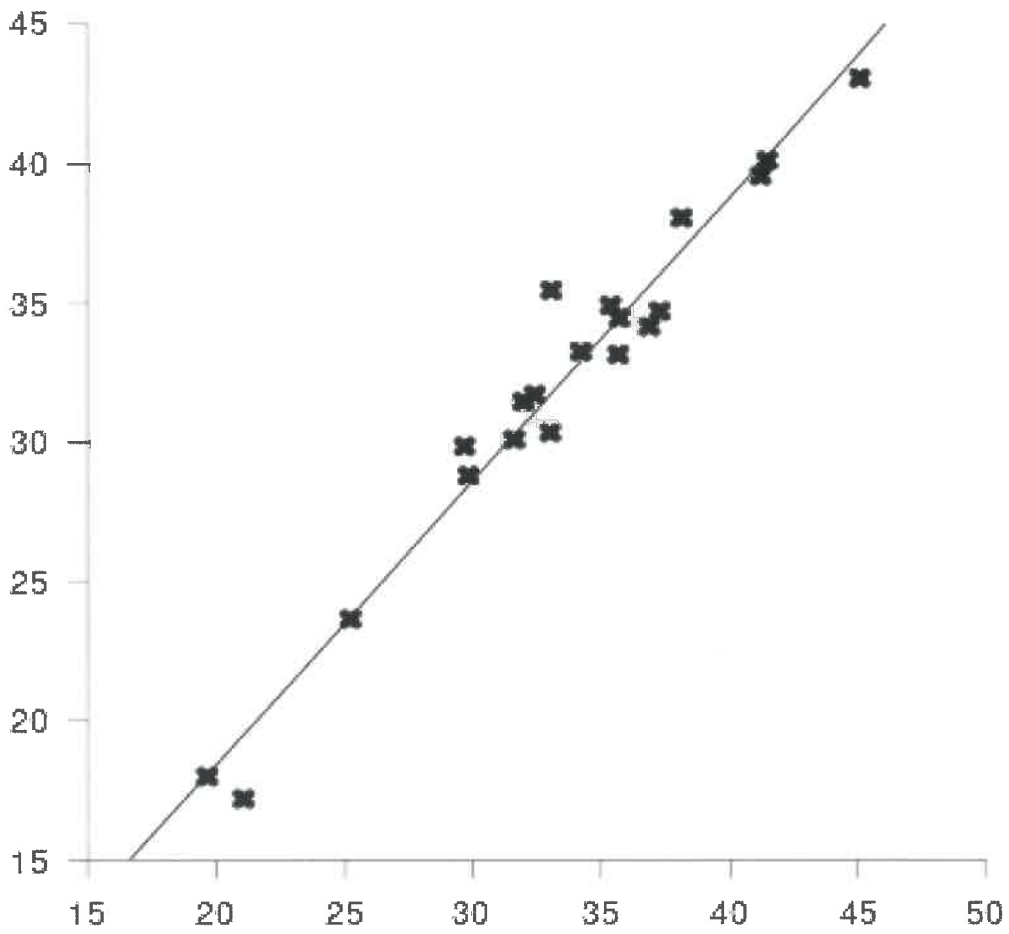
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): P-LCR%

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.979

Sample size: 20
Mean x (x): 33.445
Mean y (y): 32.095
Intercept (a): -1.916687930462
Slope (b): 1.0169438759295
Regression line equation: y=1.0169438759295x-1.916687930462



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙΚΗ ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **P-LCR%**

P-LCR (%)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	33.7	X2	MEAN	Y1	Y2	MEAN		
1	24.1	23.2	23.65	24.9	25.5	25.2	6.15%	OK
2	43.8	42.3	43.05	46.2	44	45.1	4.55%	OK
3	31.9	28.8	30.35	33.2	32.9	33.05	8.17%	OK
4	31.8	31.6	31.7	31.9	33	32.45	2.31%	OK
5	35.2	33.7	34.45	36.2	35.3	35.75	3.64%	OK
6	33.1	33.2	33.15	35	36.4	35.7	7.14%	OK
7	34.3	34	34.15	36.5	37.3	36.9	7.45%	OK
8	18.5	17.5	18	20.4	18.9	19.65	8.40%	OK
9	34.9	34.9	34.9	36.9	33.9	35.4	1.41%	OK
10	29.3	30.4	29.85	29.8	29.6	29.7	0.51%	OK
11	17.9	18.5	18.2	19.6	22.5	21.05	13.54%	OK
12	34.2	32.3	33.25	34.6	33.9	34.25	2.92%	OK
13	34.3	35.1	34.7	37.7	36.9	37.3	6.97%	OK
14	39.3	39.8	39.55	39.1	43.3	41.2	4.00%	OK
15	36.1	34.8	35.45	34.3	31.9	33.1	7.10%	OK
16	37.4	38.7	38.05	37.1	39.2	38.15	0.26%	OK
17	29.9	27.7	28.8	30.8	28.9	29.85	3.52%	OK
18	39.2	41	40.1	42.3	40.6	41.45	3.26%	OK
19	31.9	31	31.45	30.7	33.3	32	1.72%	OK
20	29.7	30.9	30.3	31.6	31.7	31.65	4.27%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±20%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.979709231

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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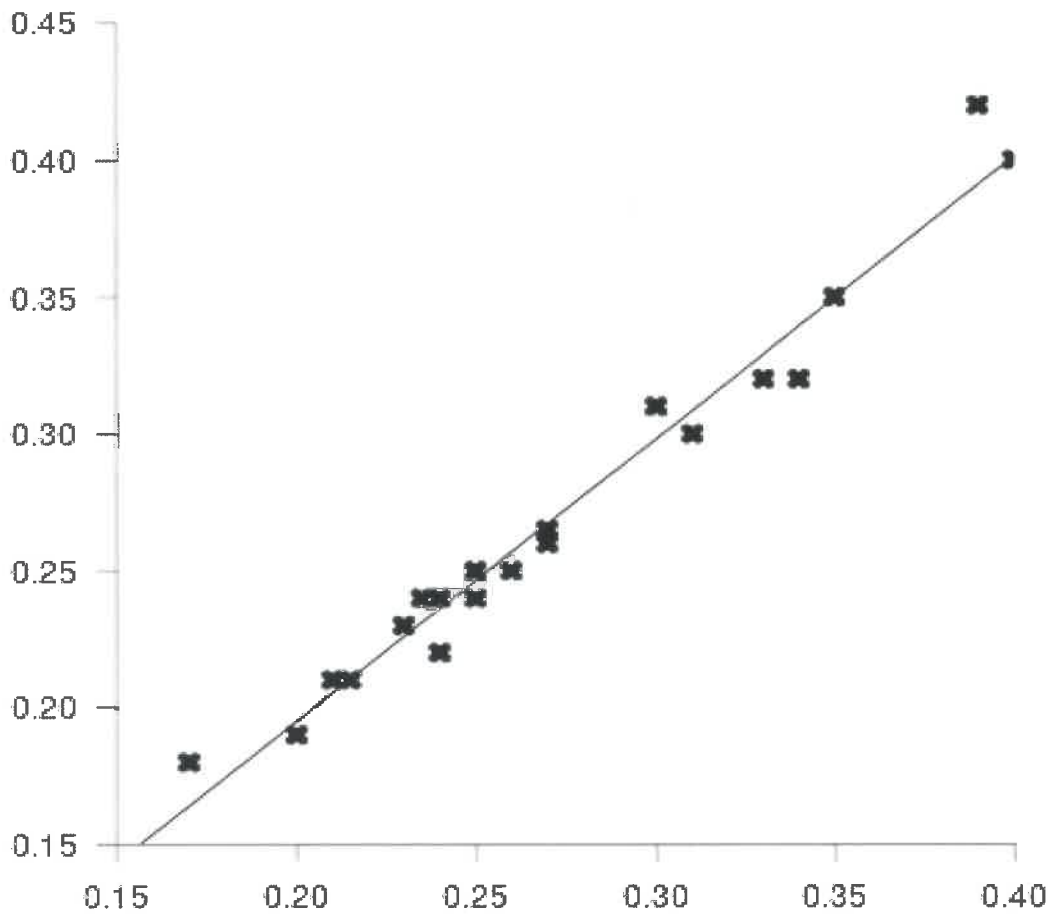
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Correlation ("r"): PCT%

x = Sysmex Reference Reagents for 3 Part Hematology Analyzer.
y = VDx Sysmex Reagents for 3 Part Hematology Analyzer.

"r" = 0.984

Sample size: 20
Mean x (x): 0.273
Mean y (y): 0.27025
Intercept (a): -0.011293668122268
Slope (b): 1.0312954876274
Regression line equation: y=1.0312954876274x-0.011293668122268



ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Specifications for Approval/Rejection of the Results: **PCT%**

PCT (%)

Experimental Scheme : 20 fresh blood samples were used for detection on two different instruments. Calculate the result deviation of the two instruments.

2 times I measure each sample

Judgment Standard : The deviation requirements are in the table below. A sample pass rate of 80% is considered to meet the requirements

SAMPLE	All Reagents from Vanguard Diagnostics			All Reagents from Sysmex as Reference			DEVIATION	JUDGE
	0.2	X2	MEAN	Y1	Y2	MEAN		
1	0.34	0.36	0.35	0.34	0.36	0.35	0.00%	OK
2	0.21	0.21	0.21	0.21	0.22	0.215	2.33%	OK
3	0.27	0.26	0.265	0.27	0.27	0.27	1.85%	OK
4	0.33	0.32	0.325	0.34	0.35	0.345	5.80%	OK
5	0.23	0.2	0.215	0.22	0.21	0.215	0.00%	OK
6	0.26	0.26	0.26	0.28	0.26	0.27	3.70%	OK
7	0.21	0.23	0.22	0.24	0.24	0.24	8.33%	OK
8	0.32	0.33	0.325	0.34	0.33	0.335	2.99%	OK
9	0.19	0.18	0.185	0.18	0.16	0.17	8.82%	OK
10	0.31	0.3	0.305	0.31	0.31	0.31	1.61%	OK
11	0.19	0.19	0.19	0.2	0.2	0.2	5.00%	OK
12	0.24	0.22	0.23	0.24	0.23	0.235	2.13%	OK
13	0.4	0.41	0.405	0.4	0.41	0.405	0.00%	OK
14	0.24	0.24	0.24	0.23	0.25	0.24	0.00%	OK
15	0.44	0.41	0.425	0.4	0.39	0.395	7.59%	OK
16	0.24	0.25	0.245	0.26	0.24	0.25	2.00%	OK
17	0.31	0.32	0.315	0.3	0.31	0.305	3.28%	OK
18	0.24	0.24	0.24	0.23	0.24	0.235	2.13%	OK
19	0.24	0.26	0.25	0.27	0.25	0.26	3.85%	OK
20	0.26	0.24	0.25	0.25	0.25	0.25	0.00%	OK
Passing Number		20	Passing Rate		100.0%	Requirement		<±12.5%
Conclusion		Pass						

Coefficient of Correlation ("r")

0.98466865

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Single Run Sample Comparison

Raw Data for "r"

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-01		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	7.5	7.3
RBC (10^6/µl)	4.41	4.42
HGB (g/dl)	13.1	13.1
HCT (%)	41.9	41
MCV (fL)	95	92.8
MCH (pg)	29.7	29.6
MCHC (g/dl)	31.3	32
PLT (10^3/µl)	351	342
LYM (%)	30.7	29.9
MXD (%)	2.3	7
NEUT (%)	67	63.1
LYM# (10^3/µl)	2.3	2.2
MXD# (10^3/µl)	0.2	0.5
NEUT# (10^3/µl)	5	4.6
RDW-SD (fL)	49.7	48.2
RDW-CV (%)	13.4	13.6
PDW (fL)	12.3	12.4
MPV (fL)	9.8	9.9
P-LCR (%)	24.1	24.9
PCT (%)	0.34	0.34

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-02		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	4	4
RBC (10^6/µl)	4.04	4.04
HGB (g/dl)	12.8	12.8
HCT (%)	40.1	39.6
MCV (fL)	99.3	98
MCH (pg)	31.7	31.7
MCHC (g/dl)	31.9	32.3
PLT (10^3/µl)	170	164
LYM (%)	32.3	31.5
MXD (%)	9.7	11.2
NEUT (%)	58	57.3
LYM# (10^3/µl)	1.3	1.3
MXD# (10^3/µl)	0.4	0.4
NEUT# (10^3/µl)	2.3	2.3
RDW-SD (fL)	47.7	48.3
RDW-CV (%)	12	12.5
PDW (fL)	18.6	16.9
MPV (fL)	12.2	12.6
P-LCR (%)	43.8	46.2
PCT (%)	0.2	0.21

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-03		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	6.7	6.6
RBC (10^6/µl)	4.83	4.79
HGB (g/dl)	13.8	13.8
HCT (%)	44.6	43.2
MCV (fL)	92.3	90.2
MCH (pg)	28.6	28.8
MCHC (g/dl)	30.9	31.9
PLT (10^3/µl)	252	246
LYM (%)	39.8	39.4
MXD (%)	13.1	12.3
NEUT (%)	47.1	48.3
LYM# (10^3/µl)	2.7	2.6
MXD# (10^3/µl)	0.9	0.8
NEUT# (10^3/µl)	3.1	3.2
RDW-SD (fL)	45.9	43.7
RDW-CV (%)	12.7	12.5
PDW (fL)	13.7	13.4
MPV (fL)	10.8	11.1
P-LCR (%)	31.9	33.2
PCT (%)	0.27	0.27

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΙΑΤΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-04		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	6.1	6.1
RBC (10^6/µl)	4.61	4.62
HGB (g/dl)	12.5	12.3
HCT (%)	40.4	39.5
MCV (fL)	87.6	85.5
MCH (pg)	27.1	26.6
MCHC (g/dl)	30.9	31.1
PLT (10^3/µl)	309	314
LYM (%)	34.7	32
MXD (%)	9.8	9.7
NEUT (%)	55.5	58.3
LYM# (10^3/µl)	2.1	2
MXD# (10^3/µl)	0.6	0.6
NEUT# (10^3/µl)	3.4	3.5
RDW-SD (fL)	44.1	43.4
RDW-CV (%)	12.4	12.8
PDW (fL)	13.5	14.7
MPV (fL)	10.8	10.9
P-LCR (%)	31.8	31.9
PCT (%)	0.33	0.34

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-05		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	4.8	4.8
RBC (10^6/µl)	4.67	4.74
HGB (g/dl)	13.8	13.7
HCT (%)	44.5	44.3
MCV (fL)	95.3	93.5
MCH (pg)	29.6	28.9
MCHC (g/dl)	31	30.9
PLT (10^3/µl)	207	192
LYM (%)	36.3	36.4
MXD (%)	9.9	8.7
NEUT (%)	53.8	51.9
LYM# (10^3/µl)	2.7	1.7
MXD# (10^3/µl)	0.5	0.6
NEUT# (10^3/µl)	2.6	2.5
RDW-SD (fL)	49.3	48.8
RDW-CV (%)	13.2	13.5
PDW (fL)	14.8	14.9
MPV (fL)	11.2	11.4
P-LCR (%)	35.2	36.2
PCT (%)	0.23	0.22

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΙΑΤΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-06		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	6.4	6.3
RBC (10^6/µl)	4.63	4.7
HGB (g/dl)	14.2	14
HCT (%)	46.1	45.9
MCV (fL)	99.6	97.7
MCH (pg)	30.7	29.8
MCHC (g/dl)	30.8	30.5
PLT (10^3/µl)	234	245
LYM (%)	31.7	32
MXD (%)	13.8	11.9
NEUT (%)	54.5	56.1
LYM# (10^3/µl)	2	2
MXD# (10^3/µl)	0.9	0.7
NEUT# (10^3/µl)	3.5	3.6
RDW-SD (fL)	51.4	51
RDW-CV (%)	13.1	13.7
PDW (fL)	13.9	14.4
MPV (fL)	11.1	11.3
P-LCR (%)	33.1	35
PCT (%)	0.26	0.28

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-07		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	9.7	9.6
RBC (10^6/µl)	4.96	5.02
HGB (g/dl)	15.4	15.3
HCT (%)	48.3	47.9
MCV (fL)	97.4	95.4
MCH (pg)	31	30.5
MCHC (g/dl)	31.9	31.9
PLT (10^3/µl)	189	212
LYM (%)	34	33.8
MXD (%)	6.2	7.2
NEUT (%)	59.8	59
LYM# (10^3/µl)	3.3	3.2
MXD# (10^3/µl)	0.6	0.7
NEUT# (10^3/µl)	5.8	5.7
RDW-SD (fL)	46.4	47.1
RDW-CV (%)	12.1	12.6
PDW (fL)	14.8	14.5
MPV (fL)	11.1	11.3
P-LCR (%)	34.3	36.5
PCT (%)	0.21	0.24

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙΑ ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-08		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	6	6.2
RBC (10^6/µl)	4.83	4.92
HGB (g/dl)	14.4	14.4
HCT (%)	45.7	45.5
MCV (fL)	94.6	92.5
MCH (pg)	29.8	29.3
MCHC (g/dl)	31.5	31.6
PLT (10^3/µl)	356	370
LYM (%)	34.9	34
MXD (%)	17	17.7
NEUT (%)	48.1	48.3
LYM# (10^3/µl)	2.1	2.1
MXD# (10^3/µl)	1	1.1
NEUT# (10^3/µl)	2.9	3
RDW-SD (fL)	46.4	46
RDW-CV (%)	12.3	12.6
PDW (fL)	11.1	11.3
MPV (fL)	9.1	9.3
P-LCR (%)	18.5	20.4
PCT (%)	0.32	0.34

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-09		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	7.4	7
RBC (10^6/µl)	4.49	4.52
HGB (g/dl)	13.7	13.6
HCT (%)	42.3	41.8
MCV (fL)	94.2	92.5
MCH (pg)	30.5	30.1
MCHC (g/dl)	32.4	32.5
PLT (10^3/µl)	170	159
LYM (%)	34.4	32.9
MXD (%)	7.5	8.7
NEUT (%)	58.1	58.4
LYM# (10^3/µl)	2.5	2.3
MXD# (10^3/µl)	0.6	0.6
NEUT# (10^3/µl)	4.3	4.1
RDW-SD (fL)	44.8	44.8
RDW-CV (%)	12.1	12.5
PDW (fL)	16	17.5
MPV (fL)	11.2	11.4
P-LCR (%)	34.9	36.9
PCT (%)	0.19	0.18

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-10		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	7.9	7.9
RBC (10^6/µl)	4.39	44.37
HGB (g/dl)	13	12.9
HCT (%)	42.2	41.4
MCV (fL)	96.1	94.7
MCH (pg)	29.6	29.5
MCHC (g/dl)	30.8	31.2
PLT (10^3/µl)	300	290
LYM (%)	22.9	23.1
MXD (%)	16.6	10.3
NEUT (%)	60.5	66.6
LYM# (10^3/µl)	1.8	1.8
MXD# (10^3/µl)	1.3	0.8
NEUT# (10^3/µl)	4.8	5.3
RDW-SD (fL)	49	47.8
RDW-CV (%)	12.6	12.8
PDW (fL)	14.7	13.4
MPV (fL)	10.4	10.6
P-LCR (%)	29.3	29.8
PCT (%)	0.31	0.31

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-11		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	4.6	4.6
RBC (10^6/µl)	5.09	5.12
HGB (g/dl)	14.3	14.3
HCT (%)	44.6	44.1
MCV (fL)	87.6	86.1
MCH (pg)	28.1	27.9
MCHC (g/dl)	32.1	32.4
PLT (10^3/µl)	208	211
LYM (%)	37.2	37
MXD (%)	11.7	11.6
NEUT (%)	51.1	51.4
LYM# (10^3/µl)	1.7	1.7
MXD# (10^3/µl)	0.5	0.5
NEUT# (10^3/µl)	2.4	2.4
RDW-SD (fL)	47.4	46
RDW-CV (%)	13.6	14
PDW (fL)	11.2	11.2
MPV (fL)	9	9.3
P-LCR (%)	17.9	19.6
PCT (%)	0.19	0.2

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-12		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	8.6	8.4
RBC (10^6/µl)	4.68	4.72
HGB (g/dl)	14	13.9
HCT (%)	45.9	45.5
MCV (fL)	98.1	96.4
MCH (pg)	29.9	29.4
MCHC (g/dl)	30.5	30.5
PLT (10^3/µl)	212	213
LYM (%)	47.7	49
MXD (%)	13.3	10.5
NEUT (%)	39	40.5
LYM# (10^3/µl)	4.1	4.1
MXD# (10^3/µl)	1.1	0.9
NEUT# (10^3/µl)	3.4	3.4
RDW-SD (fL)	49.4	49
RDW-CV (%)	13	13.2
PDW (fL)	14.9	13
MPV (fL)	11.1	11.2
P-LCR (%)	34.2	34.6
PCT (%)	0.24	0.24

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-13		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	8.9	9.1
RBC (10^6/µl)	4.8	4.87
HGB (g/dl)	12.8	12.8
HCT (%)	42.1	42
MCV (fL)	87.7	86.2
MCH (pg)	26.7	26.3
MCHC (g/dl)	30.4	30.5
PLT (10^3/µl)	360	350
LYM (%)	38.1	37.7
MXD (%)	8.5	8
NEUT (%)	53.4	54.3
LYM# (10^3/µl)	3.4	3.4
MXD# (10^3/µl)	0.8	0.7
NEUT# (10^3/µl)	4.7	5
RDW-SD (fL)	55.3	54.4
RDW-CV (%)	16.7	17
PDW (fL)	4.6	15.8
MPV (fL)	11.1	11.5
P-LCR (%)	34.3	37.7
PCT (%)	0.4	0.4

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
Α.Φ.Μ. 801665151 - Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
ΤΗΛ.: 23820 82989 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΟΝΗ ΦΛΩΡΑ

Sample-14		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	5.9	5.9
RBC (10^6/µl)	4.43	4.42
HGB (g/dl)	12.6	12.4
HCT (%)	41.4	40.7
MCV (fL)	93.5	92.2
MCH (pg)	28.4	28.1
MCHC (g/dl)	30.4	30.5
PLT (10^3/µl)	199	199
LYM (%)	42.9	45.3
MXD (%)	19.2	14.3
NEUT (%)	37.9	40.4
LYM# (10^3/µl)	2.5	2.7
MXD# (10^3/µl)	1.1	0.8
NEUT# (10^3/µl)	2.3	2.4
RDW-SD (fL)	48.2	47.5
RDW-CV (%)	13	13.6
PDW (fL)	14.9	17.3
MPV (fL)	11.9	11.6
P-LCR (%)	39.3	39.1
PCT (%)	0.24	0.23

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-15		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	4.3	4.5
RBC (10^6/µl)	2.91	2.96
HGB (g/dl)	9.3	9.3
HCT (%)	30	29.8
MCV (fL)	103.1	100.7
MCH (pg)	32	31.4
MCHC (g/dl)	31	31.2
PLT (10^3/µl)	375	357
LYM (%)	49	46.9
MXD (%)	6.5	8.7
NEUT (%)	44.5	44.4
LYM# (10^3/µl)	2.1	2.1
MXD# (10^3/µl)	0.3	0.4
NEUT# (10^3/µl)	1.9	2
RDW-SD (fL)	72.2	72.9
RDW-CV (%)	21	21.6
PDW (fL)	14.8	16.4
MPV (fL)	11.7	11.3
P-LCR (%)	36.1	34.3
PCT (%)	0.44	0.4

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-16		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	6.7	6.8
RBC (10^6/µl)	4.48	4.56
HGB (g/dl)	13	12.9
HCT (%)	42.2	42.2
MCV (fL)	94.2	92.5
MCH (pg)	29	28.3
MCHC (g/dl)	30.8	30.6
PLT (10^3/µl)	210	221
LYM (%)	44	43.1
MXD (%)	12.2	10.2
NEUT (%)	43.8	43.7
LYM# (10^3/µl)	2.9	2.9
MXD# (10^3/µl)	0.8	0.7
NEUT# (10^3/µl)	3	3.2
RDW-SD (fL)	49.6	50.2
RDW-CV (%)	13.5	13.9
PDW (fL)	15.1	14.7
MPV (fL)	11.5	11.7
P-LCR (%)	37.4	37.1
PCT (%)	0.24	0.26

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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VANGUARD DIAGNOSTICS ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-17		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	6.9	7
RBC (10^6/µl)	4.43	4.46
HGB (g/dl)	14	13.9
HCT (%)	45	44.5
MCV (fL)	101.6	99.8
MCH (pg)	31.6	31.2
MCHC (g/dl)	31.1	31.2
PLT (10^3/µl)	294	285
LYM (%)	27.6	26.2
MXD (%)	7.7	10.2
NEUT (%)	64.7	63.6
LYM# (10^3/µl)	1.9	1.8
MXD# (10^3/µl)	0.5	0.7
NEUT# (10^3/µl)	4.5	4.5
RDW-SD (fL)	51.8	51.6
RDW-CV (%)	13	13.3
PDW (fL)	13.8	13.7
MPV (fL)	10.5	10.7
P-LCR (%)	29.9	30.8
PCT (%)	0.31	0.3

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-18		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	5	5
RBC (10^6/µl)	4.16	4.17
HGB (g/dl)	11.8	11.9
HCT (%)	40	39.2
MCV (fL)	96.2	94
MCH (pg)	28.4	28.5
MCHC (g/dl)	29.5	30.4
PLT (10^3/µl)	205	188
LYM (%)	30	30.2
MXD (%)	14.8	15.6
NEUT (%)	55.2	54.2
LYM# (10^3/µl)	1.5	1.5
MXD# (10^3/µl)	0.7	0.8
NEUT# (10^3/µl)	2.8	2.7
RDW-SD (fL)	53.8	51.8
RDW-CV (%)	14.2	14.1
PDW (fL)	17.5	17.3
MPV (fL)	11.6	12.1
P-LCR (%)	39.2	42.3
PCT (%)	0.24	0.23

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Sample-19		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	6.4	6.6
RBC (10^6/µl)	4.78	4.86
HGB (g/dl)	13.9	13.9
HCT (%)	44.2	44.1
MCV (fL)	92.5	90.7
MCH (pg)	29.1	28.6
MCHC (g/dl)	31.4	31.5
PLT (10^3/µl)	223	253
LYM (%)	43.9	39.9
MXD (%)	13.1	13.9
NEUT (%)	43	46.2
LYM# (10^3/µl)	2.8	2.6
MXD# (10^3/µl)	0.8	0.9
NEUT# (10^3/µl)	2.8	3.1
RDW-SD (fL)	45.4	46.5
RDW-CV (%)	12.3	12.8
PDW (fL)	13	13.4
MPV (fL)	10.8	10.8
P-LCR (%)	31.9	30.7
PCT (%)	0.24	0.27

ΠΑΣΧΟΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΟΝΗ ΦΛΩΡΑ

Sample-20		
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference
WBC (10^3/µl)	5.7	6
RBC (10^6/µl)	4.51	4.54
HGB (g/dl)	13	13
HCT (%)	42.5	42
MCV (fL)	94.2	92.5
MCH (pg)	28.8	28.6
MCHC (g/dl)	30.6	31
PLT (10^3/µl)	243	232
LYM (%)	44.6	45.3
MXD (%)	15.6	17.6
NEUT (%)	39.8	37.1
LYM# (10^3/µl)	2.5	2.7
MXD# (10^3/µl)	0.9	1.1
NEUT# (10^3/µl)	2.9	2.2
RDW-SD (fL)	50.1	49
RDW-CV (%)	13.5	13.7
PDW (fL)	13.5	13.5
MPV (fL)	10.5	10.8
P-LCR (%)	29.7	31.6
PCT (%)	0.26	0.25

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Performance with Hematology 3rd Party Controls

Product: **EIGHTCHECK-3WP-N (SYSMEX)**
Normal Control

Lot No.: **50800822**
Expiry: **28/6/2025**

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ
ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Low Control, Lot No. , Expiry:			
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference	Range
WBC (10^3/µl)			
RBC (10^6/µl)			
HGB (g/dl)			
HCT (%)			
MCV (fL)			
MCH (pg)			
MCHC (g/dl)			
PLT (10^3/µl)			
LYM (%)			
MXD (%)			
NEUT (%)			
LYM# (10^3/µl)			
MXD# (10^3/µl)			
NEUT# (10^3/µl)			
RDW-SD (fL)			
RDW-CV (%)			
PDW (fL)			
MPV (fL)			
P-LCR (%)			

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΝΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
Α.Φ.Μ. 801665150 - Δ.Ο.Υ. ΓΙΑΝΝΙΤΣΩΝ
ΤΗΛ.: 23820 62999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

EIGHTCHECK-3WP-N (SYSMEX) Normal Control, Lot No. 50800822, Expiry: 28/6/2025			
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference	Range
WBC (10^3/µl)	7.0	7	6.5 - 7.5
RBC (10^6/µl)	4.4	4.37	4.18 – 4.52
HGB (g/dl)	12.1	11.9	11.4 – 12.4
HCT (%)	33.9	33.9	31.4 – 36.6
MCV (fL)	77.0	77.6	74.2 - 82
MCH (pg)	27.5	27.2	25.9 – 23.9
MCHC (g/dl)	35.7	35.1	32.5 – 37.5
PLT (10^3/µl)	215.0	203	183 – 247
LYM (%)	30.9	30.4	26.4 – 35.8
MXD (%)	13.5	13.4	9.4 – 15.8
NEUT (%)	55.6	56.2	52.4 – 60.2
LYM# (10^3/µl)	2.2	2.1	1.9 – 2.5
MXD# (10^3/µl)	0.9	0.9	0.7 – 1.1
NEUT# (10^3/µl)	3.9	4	3.5 – 4.3
RDW-SD (fL)	37.2	38.4	33.2 – 45
RDW-CV (%)	12.5	12.7	10.5 – 14.3
PDW (fL)	8.8	8.8	7.7 – 9.5
MPV (fL)	9.7	9.8	9 – 10.6
P-LCR (%)	17.6	18.7	7 – 28.2

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Other High Control, Lot No. , Expiry:			
Parameters	All Reagents from Vanguard Diagnostics	All Reagents from Sysmex as Reference	Range
WBC (10^3/µl)			
RBC (10^6/µl)			
HGB (g/dl)			
HCT (%)			
MCV (fL)			
MCH (pg)			
MCHC (g/dl)			
PLT (10^3/µl)			
LYM (%)			
MXD (%)			
NEUT (%)			
LYM# (10^3/µl)			
MXD# (10^3/µl)			
NEUT# (10^3/µl)			
RDW-SD (fL)			
RDW-CV (%)			
PDW (fL)			
MPV (fL)			
P-LCR (%)			

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Variation: Precision (VDx Reagents)

1. Fresh blood sample was collected and tested with the VDx Sysmex Reagents on **KX -21N,** 3 Part Hematology Analyzer.
2. The sample was tested in 10 replicates to study Precision.

Fresh Blood Sample, n = 10

Parameters	1	2	3	4	5	6	7	8	9	10	Mean	SD	CV	CV%
WBC ($10^3/\mu l$)	3.8	3.7	3.7	3.7	3.8	3.5	3.6	3.5	3.7	3.6	**3.66**	**0.11**	**0.03**	**2.94**
RBC ($10^6/\mu l$)	4.82	4.81	4.82	4.86	4.83	4.8	4.82	4.84	4.83	4.88	**4.83**	**0.02**	**0.00**	**0.49**
HGB (g/dl)	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.4	**14.22**	**0.06**	**0.00**	**0.44**
HCT (%)	44.4	44.4	44.6	44.9	44.5	44.1	44.3	44.4	44.2	44.6	**44.44**	**0.23**	**0.01**	**0.51**
MCV (fL)	92.1	92.3	92.5	92.4	92.1	91.9	91.9	91.7	91.5	91.4	**91.98**	**0.37**	**0.00**	**0.40**
MCH (pg)	29.5	29.5	29.5	29.2	29.4	29.6	29.5	29.3	29.4	29.5	**29.44**	**0.12**	**0.00**	**0.40**
MCHC (g/dl)	32	32	31.8	31.6	31.9	32.2	32.1	32	32.1	32.3	**32.00**	**0.20**	**0.01**	**0.62**
PLT ($10^3/\mu l$)	146	144	139	148	139	137	137	131	142	140	**140.30**	**4.95**	**0.04**	**3.52**
LYM (%)	39.8	40.7	39.7	39.9	41.6	42	40.6	41.3	40.3	41.4	**40.73**	**0.81**	**0.02**	**2.00**
MXD (%)	7.8	8.9	8.2	8.4	5.5	6.4	6.5	5.4	10.4	5.1	**7.26**	**1.75**	**0.24**	**24.11**
NEUT (%)	52.4	50.4	52.1	51.7	52.9	51.6	52.9	53.3	49.3	53.5	**52.01**	**1.33**	**0.03**	**2.55**
LYM# ($10^3/\mu l$)	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.4	1.5	1.5	**1.50**	**0.05**	**0.03**	**3.14**
MXD# ($10^3/\mu l$)	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.4	0.2	**0.26**	**0.07**	**0.27**	**26.89**
NEUT# ($10^3/\mu l$)	2	1.9	1.9	1.9	2	1.8	1.9	1.9	1.8	1.9	**1.90**	**0.07**	**0.04**	**3.51**
RDW-SD (fL)	44.7	45.7	45.8	45.7	45.9	44.6	45.1	46.5	45	45.6	**45.46**	**0.59**	**0.01**	**1.31**
RDW-CV (%)	12.6	12.5	12.6	12.5	12.6	12.3	12.5	12.9	12.5	12.7	**12.57**	**0.16**	**0.01**	**1.25**
PDW (fL)	14.5	14.1	15.3	14.7	14.9	15.2	13.9	13.9	15	14	**14.55**	**0.55**	**0.04**	**3.75**
MPV (fL)	10.6	10.4	10.8	10.6	10.5	10.3	10.1	10.8	10.4	10.4	**10.49**	**0.22**	**0.02**	**2.08**
P-LCR (%)	31.2	30.4	32.7	29.7	31.3	29.8	29	32.1	30.7	29.5	**30.64**	**1.19**	**0.04**	**3.89**
PCT (%)	0.15	0.15	0.15	0.16	0.15	0.14	0.14	0.14	0.15	0.15	**0.15**	**0.01**	**0.04**	**4.27**

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΤΗΛ.: 23820 82999 - 6945433450
ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Variation: Precision (VDx Reagents)

1. Fresh blood sample was collected and tested with the VDx Sysmex Reagents on XP100, 3 Part Hematology Analyzer.
2. The sample was tested in 11 replicates ,and then calculate the CV of 2nd to 11th results

Parameters	1	2	3	4	5	6	7	8	9	10	11	MEAN	SD	CV	Criterion CV≤	Conclusion
WBC ($10^3/\mu l$)	3.8	3.7	3.7	3.7	3.8	3.5	3.6	3.5	3.7	3.6	3.7	3.65	0.097	2.66%	3.50%	Qualified
RBC ($10^6/\mu l$)	4.82	4.81	4.82	4.86	4.83	4.8	4.82	4.84	4.83	4.88	4.85	4.834	0.024	0.0049916	2.00%	Qualified
HGB (g/dl)	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.4	14.4	14.24	0.084	0.0059219	1.50%	Qualified
HCT (%)	44.4	44.4	44.6	44.9	44.5	44.1	44.3	44.4	44.2	44.6	44.4	44.44	0.227	0.0051093	2.00%	Qualified
MCV (fL)	92.1	92.3	92.5	92.4	92.1	91.9	91.9	91.7	91.5	91.4	91.5	91.92	0.397	0.0043152	2.00%	Qualified
MCH (pg)	29.5	29.5	29.5	29.2	29.4	29.6	29.5	29.3	29.4	29.5	29.7	29.46	0.143	0.0048535	2.00%	Qualified
MCHC (g/dl)	32	32	31.8	31.6	31.9	32.2	32.1	32	32.1	32.3	32.4	32.04	0.237	0.0073859	2.00%	Qualified
PLT ($10^3/\mu l$)	146	144	139	148	139	137	137	131	142	140	141	139.8	4.541	0.0324833	6.00%	Qualified
LYM (%)	39.8	40.7	39.7	39.9	41.6	42	40.6	41.3	40.3	41.4	40.9	40.84	0.746	0.0182579	15.00%	Qualified
MXD (%)	7.8	8.9	8.2	8.4	5.5	6.4	6.5	5.4	10.4	5.1	7.6	7.24	1.744	0.2409287	30.00%	Qualified
NEUT (%)	52.4	50.4	52.1	51.7	52.9	51.6	52.9	53.3	49.3	53.5	51.5	51.92	1.327	0.0255647	15.00%	Qualified
LYM# ($10^3/\mu$	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.4	1.5	1.5	1.5	1.5	0.047	0.031427	15.00%	Qualified
MXD# ($10^3/$	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.4	0.2	0.3	0.26	0.070	0.2689253	30.00%	Qualified
NEUT# ($10^3/$	2	1.9	1.9	1.9	2	1.8	1.9	1.9	1.8	1.9	1.9	1.89	0.057	0.0300342	15.00%	Qualified
RDW-SD (fL)	44.7	45.7	45.8	45.7	45.9	44.6	45.1	46.5	45	45.6	45.3	45.52	0.537	0.0117986	4.00%	Qualified
RDW-CV (%)	12.6	12.5	12.6	12.5	12.6	12.3	12.5	12.9	12.5	12.7	12.6	12.57	0.157	0.0124664	4.00%	Qualified
PDW (fL)	14.5	14.1	15.3	14.7	14.9	15.2	13.9	13.9	15	14	15.2	14.62	0.583	0.0398573	12.00%	Qualified
MPV (fL)	10.6	10.4	10.8	10.6	10.5	10.3	10.1	10.8	10.4	10.4	10.6	10.49	0.218	0.0208129	5.00%	Qualified
P-LCR (%)	31.2	30.4	32.7	29.7	31.3	29.8	29	32.1	30.7	29.5	31.8	30.7	1.236	0.0402763	20.00%	Qualified
PCT (%)	0.15	0.15	0.15	0.16	0.15	0.14	0.14	0.14	0.15	0.15	0.15	0.148	0.006	0.0427335	9.00%	Qualified

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Variation: Precision (Sysmex Reagents)

1. Fresh blood sample was collected and tested with the Sysmex Reagents on **KX-21N**, 3 Part Hematology Analyzer.
2. The sample was tested in 10 replicates to study Precision.

Fresh Blood Sample, n = 10

Parameters	1	2	3	4	5	6	7	8	9	10	Mean	SD	CV	CV%
WBC (10^3/µl)	3.6	3.8	3.6	3.7	3.7	3.8	3.9	3.9	3.8	3.6	**3.74**	**0.12**	**0.03**	**3.14**
RBC (10^6/µl)	4.87	4.89	4.87	4.93	4.86	4.91	4.91	4.94	4.93	4.89	**4.90**	**0.03**	**0.01**	**0.58**
HGB (g/dl)	14.5	14.4	14.4	14.4	14.4	14.4	14.4	14.5	14.4	14.5	**14.43**	**0.05**	**0.00**	**0.33**
HCT (%)	43.7	43.7	43.4	44.1	43.5	43.8	43.8	43.9	44	43.8	**43.77**	**0.21**	**0.00**	**0.48**
MCV (fL)	89.7	89.4	89.1	89.5	89.5	89.2	89.2	88.9	89.2	89.6	**89.33**	**0.25**	**0.00**	**0.28**
MCH (pg)	29.8	29.4	29.6	29.2	29.6	29.3	29.3	29.4	29.2	29.7	**29.45**	**0.21**	**0.01**	**0.72**
MCHC (g/dl)	33.2	33	33.2	32.7	33.1	32.9	32.9	33	32.7	33.1	**32.98**	**0.18**	**0.01**	**0.55**
PLT (10^3/µl)	145	148	144	143	138	144	150	145	143	142	**144.20**	**3.26**	**0.02**	**2.26**
LYM (%)	38.8	40.4	40.4	37.8	39.1	41.2	36.5	38	38.6	41.6	**39.24**	**1.63**	**0.04**	**4.15**
MXD (%)	9.3	9	8.5	9.3	9.7	8.4	8.5	8.6	8.5	6.4	**8.62**	**0.90**	**0.10**	**10.42**
NEUT (%)	51.9	50.6	51.1	52.9	51.2	50.4	55	53.4	52.9	52	**52.14**	**1.43**	**0.03**	**2.74**
LYM# (10^3/µl)	1.4	1.5	1.5	1.4	1.4	1.6	1.4	1.5	1.5	1.5	**1.47**	**0.07**	**0.05**	**4.59**
MXD# (10^3/µl)	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	**0.30**	**0.05**	**0.16**	**15.71**
NEUT# (10^3/µl)	1.9	2	1.8	2	1.9	1.9	2.2	2.1	2	1.9	**1.97**	**0.12**	**0.06**	**5.89**
RDW-SD (fL)	43.7	42.2	43.8	44.8	44.8	43.8	43.8	43.8	44.6	43.3	**43.86**	**0.78**	**0.02**	**1.77**
RDW-CV (%)	12.9	12.6	12.8	12.9	12.9	12.6	12.7	12.5	12.9	12.7	**12.75**	**0.15**	**0.01**	**1.18**
PDW (fL)	16.1	17	14.7	16.1	14.9	15.2	15.6	15.8	17	15.1	**15.75**	**0.81**	**0.05**	**5.16**
MPV (fL)	11.2	11.2	11.4	11.4	11.2	11.2	11.2	10.9	11.5	11	**11.22**	**0.18**	**0.02**	**1.62**
P-LCR (%)	36.4	36.4	37.3	37.1	36.6	35.9	36.1	34.3	38.2	33.4	**36.17**	**1.41**	**0.04**	**3.89**
PCT (%)	0.16	0.17	0.16	0.16	0.15	0.16	0.17	0.16	0.16	0.16	**0.16**	**0.01**	**0.04**	**3.53**

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΙΔΙΩΤΙΚΟ ΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
VANGUARD DIAGNOSTICS
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΣΥΜΒΕΒΛΗΜΕΝΟΣ ΕΟΠΥΥ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Coefficient of Variation: Precision (Sysmex Reagents)

1. Fresh blood sample was collected and tested with the VDx Sysmex Reagents on XP100, 3 Part Hematology Analyzer.
2. The sample was tested in 11 replicates ,and then calculate the CV of 2nd to 11th results

Parameters	1	2	3	4	5	6	7	8	9	10	11	MEAN	SD	CV	Criterion CV≤	Conclusion
WBC (10^3/μl)	3.6	3.8	3.6	3.7	3.7	3.8	3.9	3.9	3.8	3.6	3.8	3.76	0.107	2.86%	3.50%	Qualified
RBC (10^6/μl)	4.87	4.89	4.87	4.93	4.86	4.91	4.91	4.94	4.93	4.89	4.91	4.904	0.026	0.00536934	2.00%	Qualified
HGB (g/dl)	14.5	14.4	14.4	14.4	14.4	14.4	14.4	14.5	14.4	14.5	14.5	14.43	0.048	0.00334751	1.50%	Qualified
HCT (%)	43.7	43.7	43.4	44.1	43.5	43.8	43.8	43.9	44	43.8	44	43.8	0.221	0.00504814	2.00%	Qualified
MCV (fL)	89.7	89.4	89.1	89.5	89.5	89.2	89.2	88.9	89.2	89.6	89.6	89.32	0.235	0.00262828	2.00%	Qualified
MCH (pg)	29.8	29.4	29.6	29.2	29.6	29.3	29.3	29.4	29.2	29.7	29.5	29.42	0.175	0.00595238	2.00%	Qualified
MCHC (g/dl)	33.2	33	33.2	32.7	33.1	32.9	32.9	33	32.7	33.1	33	32.96	0.165	0.00499559	2.00%	Qualified
PLT (10^3/μl)	145	148	144	143	138	144	150	145	143	142	143	144	3.266	0.02268046	6.00%	Qualified
LYM (%)	38.8	40.4	40.4	37.8	39.1	41.2	36.5	38	38.6	41.6	41.6	39.52	1.778	0.04497758	15.00%	Qualified
MXD (%)	9.3	9	8.5	9.3	9.7	8.4	8.5	8.6	8.5	6.4	6.4	8.33	1.100	0.13199824	30.00%	Qualified
NEUT (%)	51.9	50.6	51.1	52.9	51.2	50.4	55	53.4	52.9	52	52	52.15	1.427	0.02736191	15.00%	Qualified
LYM# (10^3/μ	1.4	1.5	1.5	1.4	1.4	1.6	1.4	1.5	1.5	1.5	1.5	1.48	0.063	0.04273348	15.00%	Qualified
MXD# (10^3/	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.29	0.057	0.19574007	30.00%	Qualified
NEUT# (10^3/	1.9	2	1.8	2	1.9	1.9	2.2	2.1	2	1.9	1.9	1.97	0.116	0.05885796	15.00%	Qualified
RDW-SD (fL)	43.7	42.2	43.8	44.8	44.8	43.8	43.8	43.8	44.6	43.3	43.7	43.86	0.776	0.01769987	4.00%	Qualified
RDW-CV (%)	12.9	12.6	12.8	12.9	12.9	12.6	12.7	12.5	12.9	12.7	12.7	12.73	0.142	0.01114011	4.00%	Qualified
PDW (fL)	16.1	17	14.7	16.1	14.9	15.2	15.6	15.8	17	15.1	16.8	15.82	0.874	0.05525101	12.00%	Qualified
MPV (fL)	11.2	11.2	11.4	11.4	11.2	11.2	11.2	10.9	11.5	11	11.4	11.24	0.190	0.01688049	5.00%	Qualified
P-LCR (%)	36.4	36.4	37.3	37.1	36.6	35.9	36.1	34.3	38.2	33.4	37.5	36.28	1.468	0.04046388	20.00%	Qualified
PCT (%)	0.16	0.17	0.16	0.16	0.15	0.16	0.17	0.16	0.16	0.16	0.16	0.161	0.006	0.03525753	9.00%	Qualified

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
ΚΟΜΝΗΝΩΝ 7 - ΤΣΑΛΙ - ΓΙΑΝΝΙΤΣΑ Τ.Κ. 58100
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

Conclusions

1. The VDx Sysmex 3 Part Hematology Reagents showed **an excellent** Coefficient of Correlation ("r") using Sysmex Original reagents as Reference.

2. All Measurable parameters showed values of "r" in the range of **0.971 to 99** displaying **the highest** degree of correlation between the reagents.

3. The VDx Sysmex and the Sysmex Reference 3 Part Hematology Reagents showed **an excellent** coefficient of Variation (CV %) for all the parameters.

4. The CV % (Precision) with the VDx Sysmex reagents and the Sysmex Reference reagents was found to be as under:

Parameters	Sysmex Reference Reagents (CV % - Precision)	VDx Sysmex Reagents (CV % - Precision)
Measured Parameters	0.28% - 15.71%	0.40% - 26.89%
Calculated Parameters	0.55% - 5.16%	0.40% - 4.27%

5. Values obtained with 3rd Party controls (Normal) from **Sysmex** were found to be **within** specified ranges for VDx Sysmex 3 Part Hematology Reagents and Sysmex Reference reagents

6. **The VDx Sysmex 3 Part Hematology Reagents were found to be accurate, precise and comparable with the Sysmex reference reagents in all parameters identified for the evaluation.**

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ

ΠΑΣΧΩΝΗ ΦΛΩΡΑ
ΜΙΚΡΟΒΙΟΛΟΓΙΚΑ ΕΡΓΑΣΤΗΡΙΑ ΓΙΑΝΝΙΤΣΩΝ Ε.Ε.
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ΠΑΣΧΩΝΗ ΦΛΩΡΑ