

## Performance Report

Sr. No.	Description
1.	<p data-bbox="383 1003 1425 1052"><b>VDx Reagents - Sysmex 3 Part Hematology Analyzers</b></p> <p data-bbox="870 1125 938 1173"><b>v/s</b></p> <p data-bbox="334 1251 1474 1299"><b>Reference Reagents - Sysmex 3 Part Hematology Analyzer</b></p>

# Index

<b>Sr. No.</b>	<b>Subject</b>	<b>Page Nos.</b>
<b>1</b>	<b>Details of Reagents</b>	<b>3 - 5</b>
<b>2</b>	<b>Coefficient of Correlation: Accuracy</b>	<b>6 – 12</b>
<b>3</b>	<b>Quality Control (Low, Normal &amp; High)</b>	<b>13 - 17</b>
<b>4</b>	<b>Coefficient of Variation: Precision (VDx Sysmex Compatible reagents)</b>	<b>18</b>
<b>5</b>	<b>Coefficient of Variation: Precision (Sysmex Reference reagents)</b>	<b>19</b>
<b>6</b>	<b>Conclusions</b>	<b>20</b>

## Details of Reagents

<b>Type of Reagents</b>	<b>3 Part Hematology Reagents</b>
<b>Instrument Model</b>	<b>Sysmex - XP100</b>
<b>Reference Reagents</b>	<b>Sysmex Reference Reagents</b>
<b>Cellpack</b>	<b>Lot No : X2177</b> <b>Expiry Date : 06-04-2024</b>
<b>Stromatolyser-WH</b>	<b>Lot No : X2030</b> <b>Expiry Date : 13-04-2023</b>

## Details of Tests Conducted

<b>Sr. No.</b>	<b>Tests Conducted</b>
1	Background Test
2	Coefficient of Correlation: Accuracy
3	Quality Control (Low, Normal & High)
4	Coefficient of Variation: Precision (VDx Sysmex Compatible reagents)
5	Coefficient of Variation: Precision (Sysmex Reference reagents)

## Background Test

Parameters	All Reagents: Vanguard Diagnostics VDx Diluent-S Lot : HVDS221018 VDx Lyse-S Lot : HLYS221114	All Reagents: Sysmex as Reference Cellpack Lot : X2177 Stromatolyser Lot : X2030
<b>WBC (10<sup>3</sup>/μl)</b>	0.0	0.0
<b>RBC (10<sup>6</sup>/μl)</b>	0.0	0.0
<b>HGB (g/dl)</b>	0.0	0.0
<b>HCT (%)</b>	0.0	0.0
<b>MCV (fL)</b>	0.0	0.0
<b>MCH (pg)</b>	0.0	0.0
<b>MCHC (g/dl)</b>	0.0	0.0
<b>PLT (10<sup>3</sup>/μl)</b>	0.0	0.0
<b>LYM (%)</b>	0.0	0.0
<b>MXD (%)</b>	0.0	0.0
<b>NEUT (%)</b>	0.0	0.0
<b>LYM# (10<sup>3</sup>/μl)</b>	0.0	0.0
<b>MXD# (10<sup>3</sup>/μl)</b>	0.0	0.0
<b>NEUT# (10<sup>3</sup>/μl)</b>	0.0	0.0
<b>RDW-SD (fL)</b>	0.0	0.0
<b>RDW-CV (%)</b>	0.0	0.0
<b>PDW (fL)</b>	0.0	0.0
<b>MPV (fL)</b>	0.0	0.0
<b>P-LCR (%)</b>	0.0	0.0
<b>PCT (%)</b>	0.0	0.0

## Coefficient of Correlation Studies

- I. The objective was to determine the correlation between the results obtained with the developed Vanguard compatible Sysmex reagents and the 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,  $x_i$  ( $x_1, x_2, \dots, x_n$ ) are the x values and  $y_i$  are the y values.

# Coefficient of Correlation (“r”): WBC

x = Sysmex Reference Reagents for XP100, 3 Part Hematology Analyzer.  
y = VDX Sysmex Reagents for XP100, 3 Part Hematology Analyzer.

**“r” = 0.983**

**Sample size: 16**

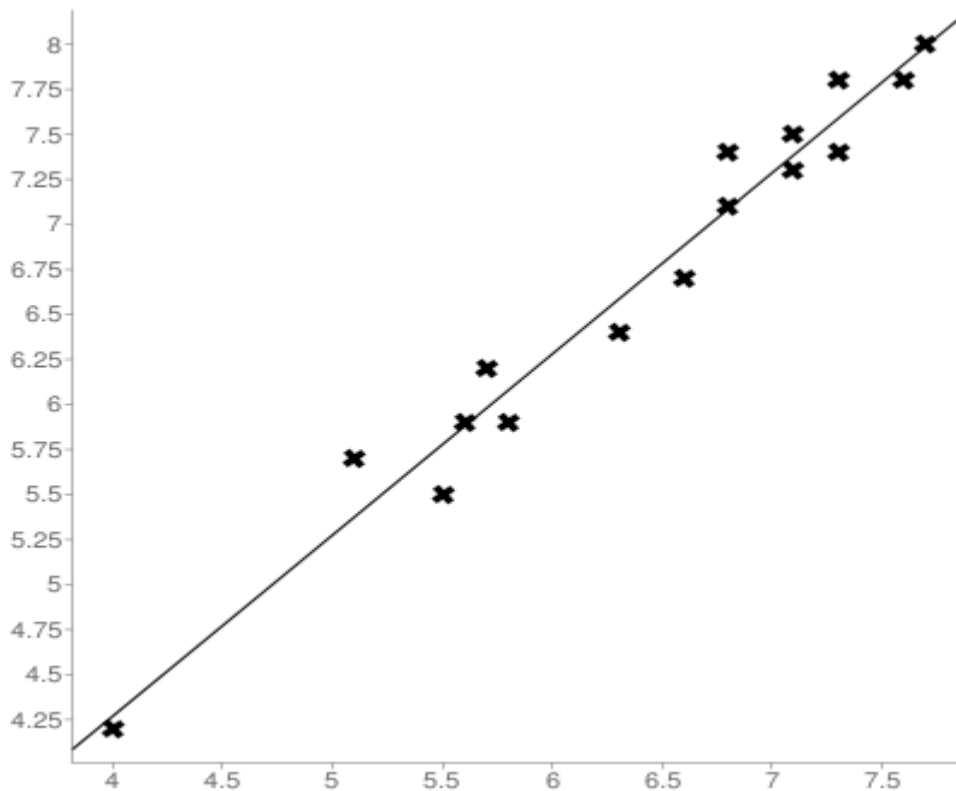
**Mean x (x̄): 6.39375**

**Mean y (ȳ): 6.675**

**Intercept (a): 0.24973382231161**

**Slope (b): 1.0049292164518**

**Regression line equation:  $y=0.24973382231161+1.0049292164518x$**



## Coefficient of Correlation (“r”): RBC

x = Sysmex Reference Reagents for XP100, 3 Part Hematology Analyzer.

y = VDX Sysmex Reagents for XP100, 3 Part Hematology Analyzer.

$$“r” = 0.995$$

**Sample size: 16**

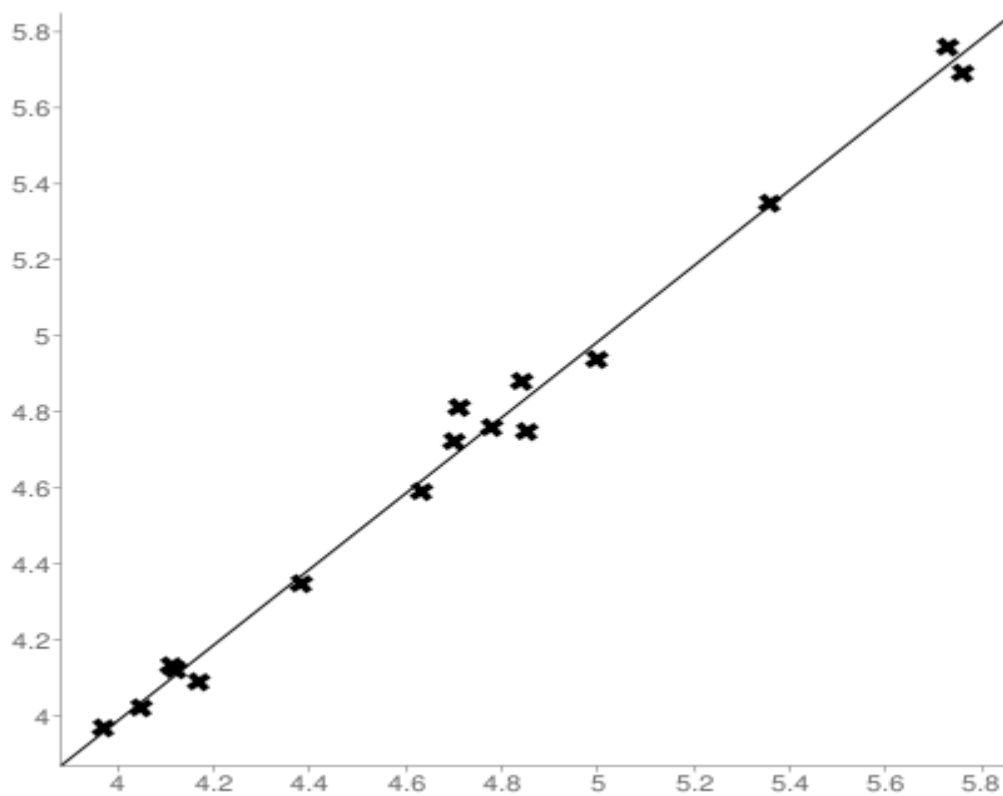
**Mean x ( $\bar{x}$ ): 4.6975**

**Mean y ( $\bar{y}$ ): 4.683125**

**Intercept (a): 0.0013023063907616**

**Slope (b): 0.99666262769755**

**Regression line equation:  $y=0.0013023063907616+0.99666262769755x$**





# Coefficient of Correlation (“r”): Hemoglobin

x = Sysmex Reference Reagents for XP100, 3 Part Hematology Analyzer.  
y = VDX Sysmex Reagents for XP100, 3 Part Hematology Analyzer.

$$“r” = 0.997$$

**Sample size: 16**

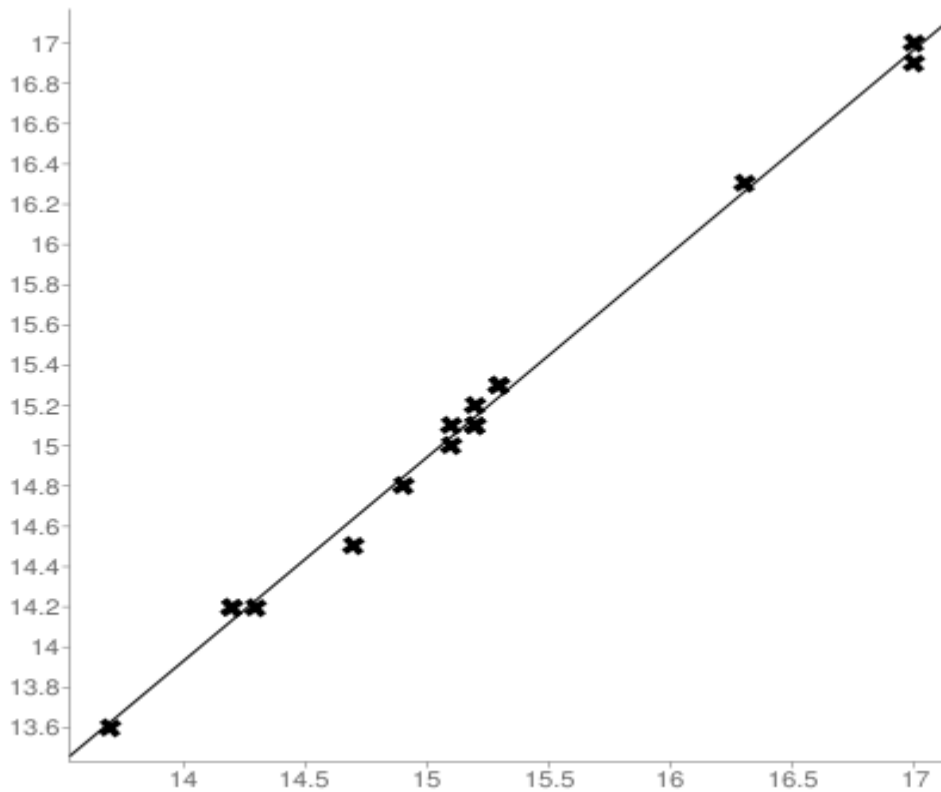
**Mean x (x̄): 15.16875**

**Mean y (ȳ): 15.1125**

**Intercept (a): -0.25504932564509**

**Slope (b): 1.0131058475909**

**Regression line equation:  $y = 1.0131058475909x - 0.25504932564509$**



# Coefficient of Correlation (“r”): Platelets

x = Sysmex Reference Reagents for XP100, 3 Part Hematology Analyzer.

y = VDX Sysmex Reagents for XP100, 3 Part Hematology Analyzer.

$$“r” = 0.996$$

**Sample size: 16**

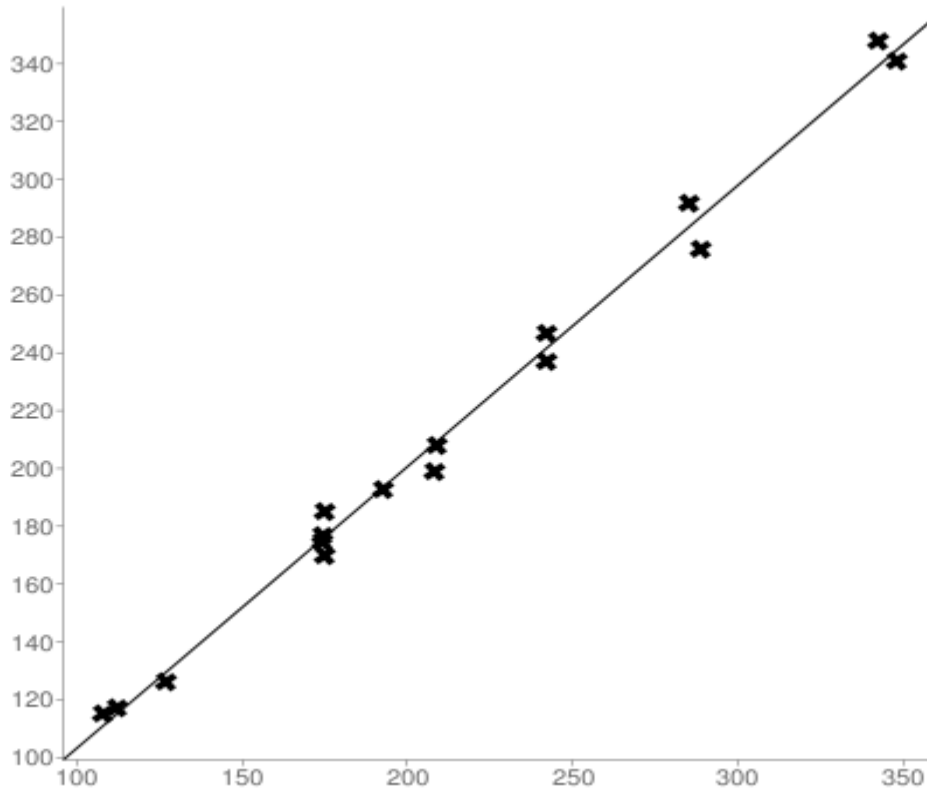
**Mean x (x̄): 212.6875**

**Mean y (ȳ): 212.875**

**Intercept (a): 5.6144519167176**

**Slope (b): 0.9744839169358**

**Regression line equation:  $y = 5.6144519167176 + 0.9744839169358x$**



# Coefficient of Correlation (“r”): MCV

x = Sysmex Reference Reagents for XP100, 3 Part Hematology Analyzer.  
y = VDX Sysmex Reagents for XP100, 3 Part Hematology Analyzer.

**“r” = 0.998**

**Sample size: 16**

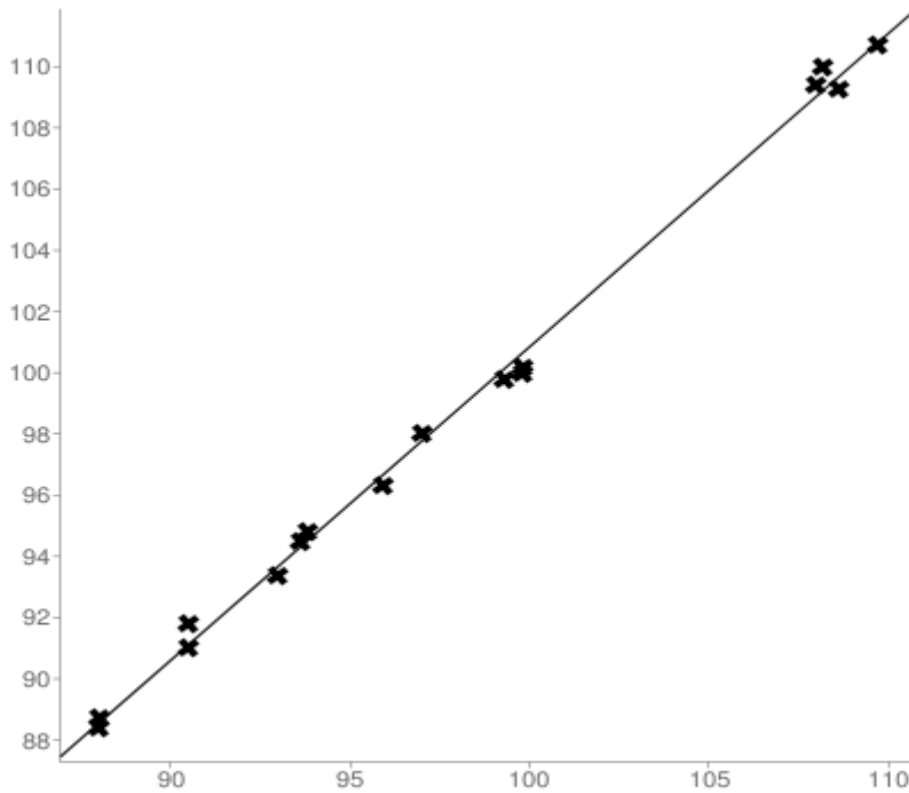
**Mean x ( $\bar{x}$ ): 97.73125**

**Mean y ( $\bar{y}$ ): 98.51875**

**Intercept (a): -1.5500363374495**

**Slope (b): 1.0239180030691**

**Regression line equation:  $y=1.0239180030691x-1.5500363374495$**

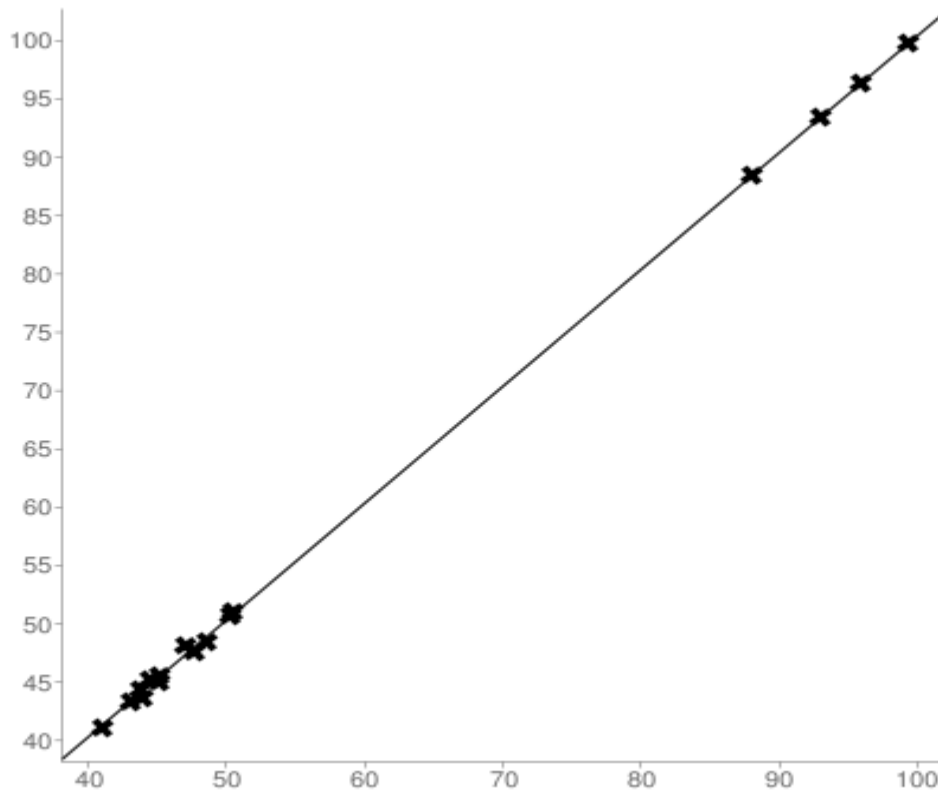


# Coefficient of Correlation (“r”): HCT

x = Sysmex Reference Reagents for XP100, 3 Part Hematology Analyzer.  
y = VDX Sysmex Reagents for XP100, 3 Part Hematology Analyzer.

$$“r” = 0.999$$

**Sample size: 16**  
**Mean x ( $\bar{x}$ ): 57.9125**  
**Mean y ( $\bar{y}$ ): 58.2625**  
**Intercept (a): 0.20773813970541**  
**Slope (b): 1.0024564966164**  
**Regression line equation:  $y=0.20773813970541+1.0024564966164x$**



## **Performance with Hematology 3<sup>rd</sup> Part Controls**

### **Diagon D Check D Plus**

#### **Low, Normal & High Controls**

**Lot No : 2V0901**

**Expiry : 05.03.2023**

**Diagon D Check D Plus**  
**(Low Control, Lot No: 2V0901, Exp : 05.03.2023)**

Parameters	All Reagents : Vanguard Diagnostics VDx Diluent-S, Lot : HVDS221018 VDx Lyse-S, Lot : HLYS221114	All Reagents: Sysmex as Reference Cellpack, Lot:X2177 Stromatolyser, Lot : X2030	Range
WBC (10 <sup>3</sup> /μl)	3.2	3.1	2.4 - 3.4
RBC (10 <sup>6</sup> /μl)	2.44	2.47	2.28 - 2.68
HGB (g/dl)	7.2	7.1	6.6 - 7.6
HCT (%)	18.6	18.9	15.0 - 21.0
MCV (fL)	76.2	76.5	66.7 - 78.7
MCH (pg)	29.5	28.7	25.2 - 32.2
MCHC (g/dl)	38.7	37.6	35.0 - 44.0
PLT (10 <sup>3</sup> /μl)	70	74	42 - 92
LYM (%)	29.1	29.3	15.2 - 35.4
MXD (%)	13.6	11.6	0.0 - 28.0
NEUT (%)	57.3	59.1	45.5 - 75.9
LYM# (10 <sup>3</sup> /μl)	0.9	0.9	0.4 - 1.0
MXD# (10 <sup>3</sup> /μl)	0.4	0.4	0.0 - 0.8
NEUT# (10 <sup>3</sup> /μl)	1.9	1.8	1.3 - 2.3
RDW-SD (fL)	34.0	34.4	26.3 - 42.3
RDW-CV (%)	12.0	12.7	6.4 - 16.4
PDW (fL)	7.4	7.9	1.2 - 13.2
MPV (fL)	10.4	10.3	4.7 - 14.7
P-LCR (%)	22.4	22.9	
PCT (%)	0.07	0.08	0.00 - 0.12

**Diagon D Check D Plus**  
**(Normal Control, Lot No: 2V0901, Exp : 05.03.2023)**

Parameters	All Reagents : Vanguard Diagnostics VDx Diluent-S, Lot : HVDS221018 VDx Lyse-S, Lot : HLYS221114	All Reagents: Sysmex as Reference Cellpack, Lot:X2177 Stromatolyser, Lot : X2030	Range
WBC (10 <sup>3</sup> /μl)	8.2	8.3	6.8 - 8.8
RBC (10 <sup>6</sup> /μl)	4.26	4.23	4.18 - 4.78
HGB (g/dl)	13.6	13.6	13.0 - 14.2
HCT (%)	34.9	34.7	31.2 - 40.2
MCV (fL)	81.9	82.0	73.7 - 85.7
MCH (pg)	31.9	32.2	26.6 - 34.2
MCHC (g/dl)	39.0	39.2	33.3 - 42.9
PLT (10 <sup>3</sup> /μl)	220	228	175 - 265
LYM (%)	28.2	28.9	22.6 - 37.6
MXD (%)	13.7	13.9	6.5 - 19.5
NEUT (%)	58.1	57.2	48.4 - 65.4
LYM# (10 <sup>3</sup> /μl)	2.3	2.4	1.8 - 3.0
MXD# (10 <sup>3</sup> /μl)	1.1	1.2	0.5 - 1.5
NEUT# (10 <sup>3</sup> /μl)	4.8	4.7	3.7 - 5.1
RDW-SD (fL)	34.1	36.1	27.4 - 45.4
RDW-CV (%)	11.3	11.9	5.8 - 15.8
PDW (fL)	7.7	8.1	4.2 - 10.2
MPV (fL)	11.1	10.7	6.5 - 12.5
P-LCR (%)	28.3	25.0	
PCT (%)	0.24	0.24	0.006 - 0.36

**Diagon D Check D Plus**  
**(High Control, Lot No: 2V0901, Exp : 05.03.2023)**

Parameters	All Reagents : Vanguard Diagnostics VDx Diluent-S, Lot : HVDS221018 VDx Lyse-S, Lot : HLYS221114	All Reagents: Sysmex as Reference Cellpack, Lot:X2177 Stromatolyser, Lot : X2030	Range
WBC (10 <sup>3</sup> /μl)	17.4	17.3	14.3 - 19.3
RBC (10 <sup>6</sup> /μl)	5.23	5.18	5.11 - 5.91
HGB (g/dl)	17.6	17.7	16.9 - 18.5
HCT (%)	45.1	44.7	41.6 - 50.6
MCV (fL)	86.2	86.3	77.8 - 89.8
MCH (pg)	33.7	34.2	28.3 - 35.9
MCHC (g/dl)	39.0	39.6	33.5 - 43.1
PLT (10 <sup>3</sup> /μl)	510	514	434 - 564
LYM (%)	31.3	31.4	28.9 - 39.1
MXD (%)	17.6	15.9	7.4 - 22.0
NEUT (%)	51.1	52.7	41.1 - 61.6
LYM# (10 <sup>3</sup> /μl)	5.4	5.4	4.8 - 6.6
MXD# (10 <sup>3</sup> /μl)	3.1	2.8	1.3 - 3.8
NEUT# (10 <sup>3</sup> /μl)	8.9	9.1	6.9 - 10.3
RDW-SD (fL)	36.1	37.7	28.6 - 48.6
RDW-CV (%)	10.5	11.3	6.3 - 16.3
PDW (fL)	8.1	8.2	4.3 - 10.3
MPV (fL)	11.3	11.1	6.6 - 12.6
P-LCR (%)	32.7	30.4	
PCT (%)	0.58	0.57	0.18 - 0.78





**D-Check D Plus****CONTROL****ASSAY VALUES AND EXPECTED RANGES**

Vizsgálati értékek és várható tartományok

**LOT: 2V0901** **05-03-2023**

<b>Instruments:</b>		<b>Sysmex XP series</b>					
<b>Parameter</b>		<b>CONTROL "Low"</b>		<b>CONTROL "Normal"</b>		<b>CONTROL "High"</b>	
		<b>LOT: 2V0901</b>		<b>LOT: 2V0901</b>		<b>LOT: 2V0901</b>	
		<b>Mean ± Limit</b>	<b>Range Variation</b>	<b>Mean ± Limit</b>	<b>Range Variation</b>	<b>Mean ± Limit</b>	<b>Range Variation</b>
WBC	10 <sup>3</sup> /μL	2,9 ± 0,5	2,4 - 3,4	8,1 ± 1,0	7,1 - 9,1	17,1 ± 2,8	14,3 - 19,9
RBC	10 <sup>6</sup> /μL	2,48 ± 0,20	2,28 - 2,68	4,32 ± 0,30	4,02 - 4,62	5,35 ± 0,40	4,95 - 5,75
Hgb	g/dL	7,1 ± 0,5	6,6 - 7,6	13,5 ± 0,7	12,8 - 14,2	17,6 ± 0,9	16,7 - 18,5
	g/L	71 ± 5	66 - 76	135 ± 7	128 - 142	176 ± 9	167 - 185
Hct	%	18,0 ± 3,0	15,0 - 21,0	33,7 ± 4,5	29,2 - 38,2	43,9 ± 4,5	39,4 - 48,4
	L/L	0,180 ± 0,030	0,150 - 0,210	0,337 ± 0,045	0,292 - 0,382	0,439 ± 0,045	0,394 - 0,484
MCV	fL	72,7 ± 6,0	66,7 - 78,7	78,1 ± 6,0	72,1 - 84,1	82,1 ± 6,0	76,1 - 88,1
MCH	pg	28,7 ± 3,5	25,2 - 32,2	31,4 ± 3,5	27,9 - 34,9	32,9 ± 3,5	29,4 - 36,4
MCHC	g/dL	39,5 ± 4,5	35,0 - 44,0	40,1 ± 4,5	35,6 - 44,6	40,0 ± 4,5	35,5 - 44,5
	g/L	395 ± 45	350 - 440	401 ± 45	356 - 446	400 ± 45	355 - 445
RDW-SD	fL	30,3 ± 12,0	26,3 - 42,3	34,6 ± 12,0	26,9 - 44,9	35,7 ± 12,0	27,8 - 47,8
RDW-CV	%	11,9 ± 8,0	6,4 - 16,4	11,8 ± 8,0	5,8 - 15,8	11,7 ± 8,0	6,1 - 16,1
Pit	10 <sup>3</sup> /μL	67 ± 25	42 - 92	226 ± 45	181 - 271	498 ± 80	418 - 578
MPV	fL	9,7 ± 5,0	4,7 - 14,7	9,9 ± 5,0	4,9 - 14,9	10,1 ± 5,0	5,1 - 15,1
PCT	%	0,06 ± 0,06	0,00 - 0,12	0,22 ± 0,15	0,07 - 0,37	0,51 ± 0,30	0,21 - 0,81
PDW	fL	7,2 ± 6,0	1,2 - 13,2	7,2 ± 6,0	1,2 - 13,2	7,6 ± 6,0	1,6 - 13,6
P-LCR	%	14,5 ± 14,0	0,5 - 28,5	15,3 ± 15,0	0,3 - 30,3	18,2 ± 15,0	3,2 - 33,2
LYMPH#	10 <sup>3</sup> /μL	0,7 ± 0,3	0,4 - 1,0	2,3 ± 0,8	1,5 - 3,1	5,6 ± 1,4	4,2 - 7,0
MXD#	10 <sup>3</sup> /μL	0,4 ± 0,4	0,0 - 0,8	1,1 ± 1,1	0,0 - 2,2	2,6 ± 1,3	1,3 - 3,9
NEUT#	10 <sup>3</sup> /μL	1,8 ± 0,5	1,3 - 2,3	4,7 ± 1,7	3,0 - 6,4	8,9 ± 2,2	6,7 - 11,1
LYMPH%	%	25,3 ± 10,1	15,2 - 35,4	28,6 ± 10,0	18,6 - 38,6	32,6 ± 8,1	24,5 - 40,7
MXD%	%	14,0 ± 14,0	0,0 - 28,0	13,4 ± 13,4	0,0 - 26,8	15,1 ± 7,6	7,5 - 22,7
NEUT%	%	60,7 ± 15,2	45,5 - 75,9	58,0 ± 20,3	37,7 - 78,3	52,3 ± 13,1	39,2 - 65,4

Occasionally leukocyte cell population are incorrectly identified. If this occurs, rerun the sample.

A leukocita sejtpopulációk időnként helytelenül kerülnek meghatározásra. Ha ez történik mérje újra a mintát!



DIAGON Ltd  
48-52., Baross Str.  
Budapest, Hungary  
H-1047



## Coefficient of Variation: Precision (VDx Reagent)

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 06 replicates to study Precision.
3. Coefficient of Variation (CV %) was calculated.

### Fresh Blood Sample, n = 06

Precision Evaluation report of VDx Sysmex Compatible reagent on Sysmex - XP100, 3 Part Hematology Analyzer														
Fresh Blood Sample														
Parameters	Ist	IInd Repeat	IIIrd Repeat	IVth Repeat	Vth Repeat	VIth Repeat	VIIth Repeat	VIIIth Repeat	IXth Repeat	Xth Repeat	Mean	SD	CV	CV%
WBC (10 <sup>3</sup> /μl)	7	7	7.2	6.8	6.8	6.9					6.95	0.15	0.02	2.18
RBC (10 <sup>6</sup> /μl)	4.13	4.13	4.13	4.09	4.1	4.07					4.11	0.03	0.01	0.62
HGB (g/dl)	15.4	15.4	15.4	15.3	15.3	15.4					15.37	0.05	0.00	0.34
HCT (%)	44.3	44.7	44.6	44.3	44.4	44.2					44.42	0.19	0.00	0.44
MCV (fl)	107.3	108.2	108	108.3	108.3	108.6					108.12	0.44	0.00	0.41
MCH (pg)	37.3	37.3	37.3	37.4	37.3	37.8					37.40	0.20	0.01	0.53
MCHC (g/dl)	34.8	34.5	34.5	34.5	34.5	34.8					34.60	0.15	0.00	0.45
PLT (10 <sup>3</sup> /μl)	266	261	259	270	274	274					267.33	6.44	0.02	2.41
LYM (%)	37.9	36.3	37.9	37.4	37.5	38.0					37.50	0.64	0.02	1.69
MXD (%)	10.5	10.7	11.8	10.8	12.3	11.3					11.23	0.70	0.06	6.26
NEUT (%)	51.6	53	50.3	51.8	50.2	50.7					51.27	1.08	0.02	2.10
LYM# (10 <sup>3</sup> /μl)	2.7	2.5	2.7	2.5	2.6	2.6					2.60	0.09	0.03	3.44
MXD# (10 <sup>3</sup> /μl)	0.7	0.7	0.8	0.7	0.80	0.8					0.75	0.05	0.07	7.30
NEUT# (10 <sup>3</sup> /μl)	3.6	3.8	3.7	3.6	3.4	3.5					3.60	0.14	0.04	3.93
RDW-SD (fl)	52.4	51.9	52.3	51.7	53	52.8					52.35	0.50	0.01	0.96
RDW-CV (%)	12.5	12.6	12.7	12.3	12.5	12.5					12.52	0.13	0.01	1.06
PDW (fl)	15.4	16.4	15.4	15.6	14.4	16.2					15.57	0.71	0.05	4.55
MPV (fl)	11.2	11.4	11.2	11.3	11.2	11.6					11.32	0.16	0.01	1.42
P-LCR (%)	35.4	36.9	34.4	35.9	34.8	37.2					35.77	1.12	0.03	3.14
PCT (%)	0.30	0.30	0.29	0.30	0.31	0.32					0.30	0.01	0.03	3.40

# Coefficient of Variation:

## Precision (Sysmex Reference Reagent)

1. Fresh blood sample was collected and tested with the Sysmex Reference Reagents on XP100, 3 Part Hematology Analyzer.
2. The sample was tested in 07 replicates to study Precision.
3. Coefficient of Variation (CV %) was calculated.

**Fresh Blood Sample, n = 07**

Precision Evaluation report of Sysmex Reference reagent on XP100, 3 Part Hematology Analyzer														
Fresh Blood Sample														
Parameters	1st	IInd Repeat	IIIrd Repeat	IVth Repeat	Vth Repeat	VIth Repeat	VIIth Repeat	VIIIth Repeat	IXth Repeat	Xth Repeat	Mean	SD	CV	CV%
WBC (10 <sup>3</sup> /μl)	7.2	7.3	7.2	7.2	7.1	7.1	7.1				7.17	0.08	0.01	1.05
RBC (10 <sup>6</sup> /μl)	4.23	4.22	4.24	4.19	4.23	4.2	4.15				4.21	0.03	0.01	0.74
HGB (g/dl)	15.8	15.9	15.9	15.6	15.6	15.6	15.5				15.70	0.16	0.01	1.04
HCT (%)	45.2	45.1	45.2	44.8	45.1	44.9	44.2				44.93	0.35	0.01	0.79
MCV (fl)	106.9	106.9	106.6	106.9	106.6	106.9	106.5				106.76	0.18	0.00	0.17
MCH (pg)	37.4	37.7	37.5	37.2	36.9	37.1	37.3				37.30	0.26	0.01	0.71
MCHC (g/dl)	35.0	35.3	35.2	34.8	34.6	34.7	35.1				34.96	0.26	0.01	0.75
PLT (10 <sup>3</sup> /μl)	241	245	233	254	258	275	268				253.43	14.95	0.06	5.90
LYM (%)	36.0	37.4	36.8	35.6	36.1	38.5	36.1				36.64	1.01	0.03	2.76
MXD (%)	14.9	14.6	15.5	16.1	15.7	14.5	15.8				15.30	0.63	0.04	4.12
NEUT (%)	49.1	48.0	47.7	48.3	48.2	47	48.1				48.06	0.63	0.01	1.32
LYM# (10 <sup>3</sup> /μl)	2.6	2.7	2.6	2.6	2.6	2.7	2.6				2.63	0.05	0.02	1.86
MXD# (10 <sup>3</sup> /μl)	1.1	1.1	1.1	1.2	1.1	1.0	1.1				1.10	0.06	0.05	5.25
NEUT# (10 <sup>3</sup> /μl)	3.5	3.5	3.5	3.4	3.4	3.4	3.4				3.44	0.05	0.02	1.55
RDW-SD (fl)	52.8	51.6	51.8	51.9	52.4	52.0	51.2				51.96	0.52	0.01	1.01
RDW-CV (%)	12.9	12.6	12.8	13.1	12.8	12.9	12.8				12.84	0.15	0.01	1.18
PDW (fl)	15.8	14.9	16.7	16.0	17.1	16.2	17.2				16.27	0.81	0.05	4.96
MPV (fl)	11.8	11.6	11.8	11.8	11.9	11.6	11.8				11.76	0.11	0.01	0.96
P-LCR (%)	39.6	37.8	39.7	39.1	40.6	37.2	40.0				39.14	1.22	0.03	3.12
PCT (%)	0.28	0.28	0.27	0.30	0.31	0.32	0.32				0.30	0.02	0.07	6.93

## Conclusions

1. The V Dx 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 **0.983 to 0.999** displaying the highest degree of correlation between the reagents.
3. The V Dx Sysmex and the Sysmex Reference 3 Part Hematology Reagents showed an excellent coefficient of Variation (CV %) for all the parameters.
4. The CV % of Precision with the V Dx Sysmex reagents and the Sysmex Reference reagents for the parameters are mentioned below.

Parameters	Sysmex Reference Reagents (CV % of Precision)	V Dx Sysmex Reagents (CV % of Precision)
Measured Parameters	0.17% – 5.90%	0.34% - 2.41%
Calculated Parameters	0.71% - 6.93%	0.45% - 7.30%

5. Values obtained with 3<sup>rd</sup> Party controls from Diagon Hungary- Low, Normal & High were found to be within the specified ranges both for V Dx Sysmex 3 Part Hematology Reagents and Sysmex Reference reagents
6. **The V Dx 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.**