

## Performance Report

Sr. No.	Description
1.	<p data-bbox="391 940 1419 989">VDx Reagents - Horiba 3 Part Hematology Analyzers</p> <p data-bbox="867 1058 938 1106">v/s</p> <p data-bbox="342 1184 1471 1232">Reference Reagents - Horiba 3 Part Hematology Analyzer</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 Horiba Compatible reagents)</b>	<b>18</b>
<b>5</b>	<b>Coefficient of Variation: Precision (Horiba 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>Horiba - ABX Micros ES60</b>
<b>Reference Reagents</b>	<b>Reference Horiba Reagents</b>
<b>Minidil LMG</b>	<b>Lot No : 220407F17</b> <b>Expiry Date: 07-10-2023</b>
<b>Minilysebio</b>	<b>Lot No : 220412B47</b> <b>Expiry Date: 12-04-2023</b>
<b>ABX Miniclean</b>	<b>Lot No : 220518T17</b> <b>Expiry Date: 18-05-2023</b>

# Details of Tests Conducted

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

## Background

Parameters	All Reagents: Vanguard Diagnostics VDx Diluent-A Lot- HVDA221015 VDx Lyse-A Lot- HVLA220804 VDx Cleaner-A Lot- HVRA220807	All Reagents: Horiba as Reference Minidil LMG Lot-220407F17 Minilysebio Lot-220412B47 ABX Miniclean Lot- 220518T17
WBC (10 <sup>3</sup> /mm <sup>3</sup> )	0.0	0.0
Lym (%)	0.0	0.0
Mon (%)	0.0	0.0
Gran (%)	0.0	0.0
Lym# (10 <sup>3</sup> /mm <sup>3</sup> )	0.0	0.0
Mon# (10 <sup>3</sup> /mm <sup>3</sup> )	0.0	0.0
Gran# (10 <sup>3</sup> /mm <sup>3</sup> )	0.0	0.0
RBC (10 <sup>6</sup> /mm <sup>3</sup> )	0.0	0.0
HGB (g/dl)	0.0	0.0
HCT (%)	0.0	0.0
MCV (μm <sup>3</sup> )	0.0	0.0
MCH (pg)	0.0	0.0
MCHC (g/dl)	0.0	0.0
RDW (%)	0.0	0.0
PLT (10 <sup>3</sup> /mm <sup>3</sup> )	0.0	0.0
MPV (μm <sup>3</sup> )	0.0	0.0
PCT (%)	0.0	0.0
PDW (%)	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 Horiba reagent and the Reference Horiba 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 = Horiba Reference Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.  
y = VDX Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.

$$“r” = 0.989$$

**Sample size: 16**

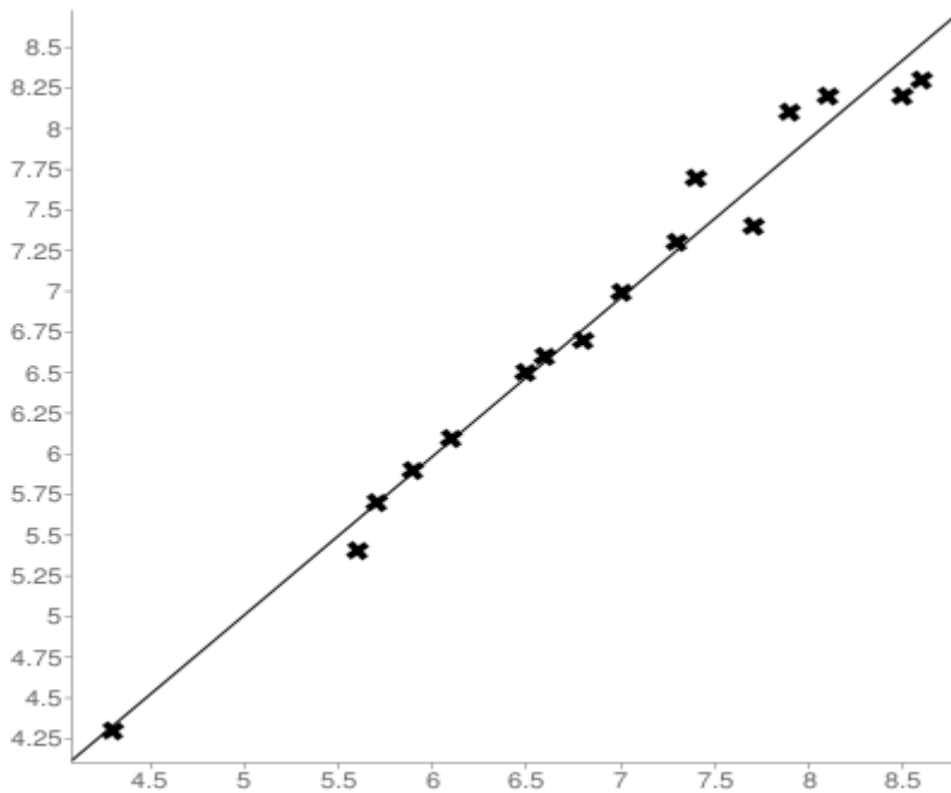
**Mean x ( $\bar{x}$ ): 6.875**

**Mean y ( $\bar{y}$ ): 6.8375**

**Intercept (a): 0.12998070429337**

**Slope (b): 0.9756391702846**

**Regression line equation:  $y=0.12998070429337+0.9756391702846x$**



# Coefficient of Correlation (“r”): RBC

x = Horiba Reference Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.  
y = VDX Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.

$$“r” = 0.989$$

**Sample size: 16**

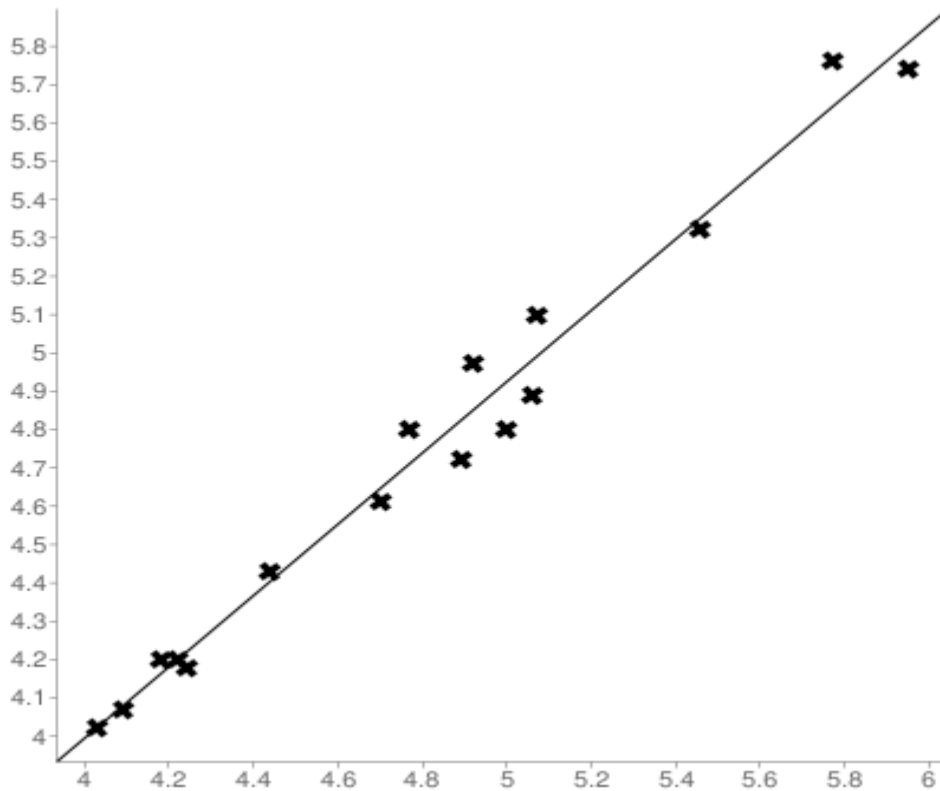
**Mean x ( $\bar{x}$ ): 4.799375**

**Mean y ( $\bar{y}$ ): 4.738125**

**Intercept (a): 0.27567091032748**

**Slope (b): 0.92979900292695**

**Regression line equation:  $y=0.27567091032748+0.92979900292695x$**





# Coefficient of Correlation (“r”): Hemoglobin

x = Horiba Reference Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.  
y = VDX Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.

“r” = 0.970

**Sample size: 16**

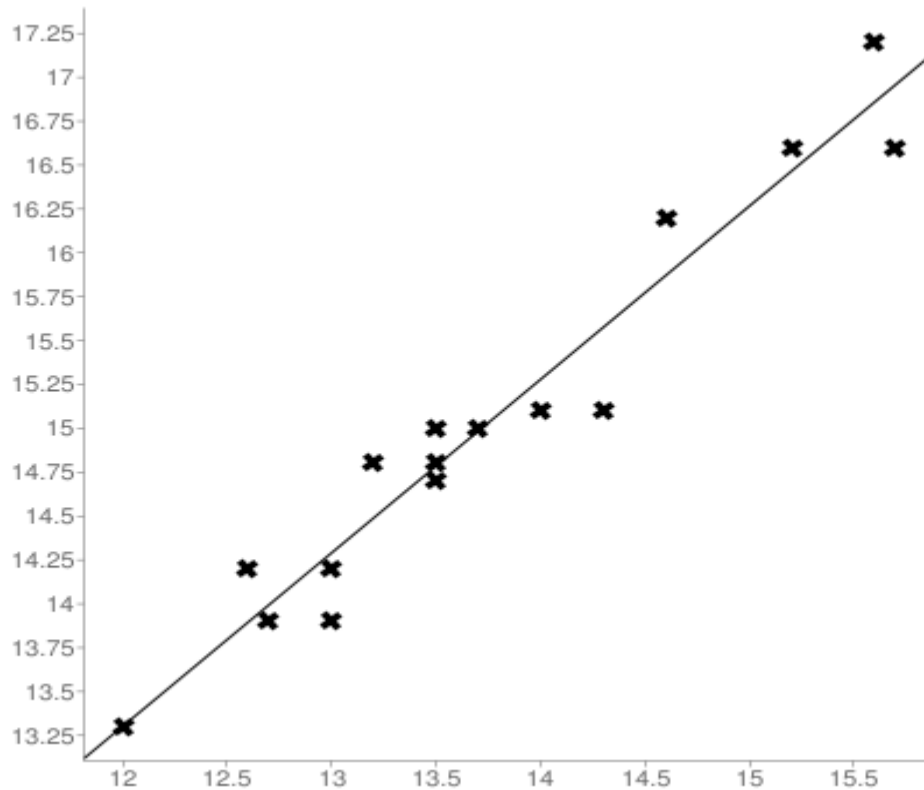
**Mean x ( $\bar{x}$ ): 13.75625**

**Mean y ( $\bar{y}$ ): 15.0375**

**Intercept (a): 1.44074417609**

**Slope (b): 0.98840569369632**

**Regression line equation:  $y=1.44074417609+0.98840569369632x$**



# Coefficient of Correlation (“r”): Platelets

x = Horiba Reference Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.  
y = VDX Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.

$$“r” = 0.979$$

**Sample size: 16**

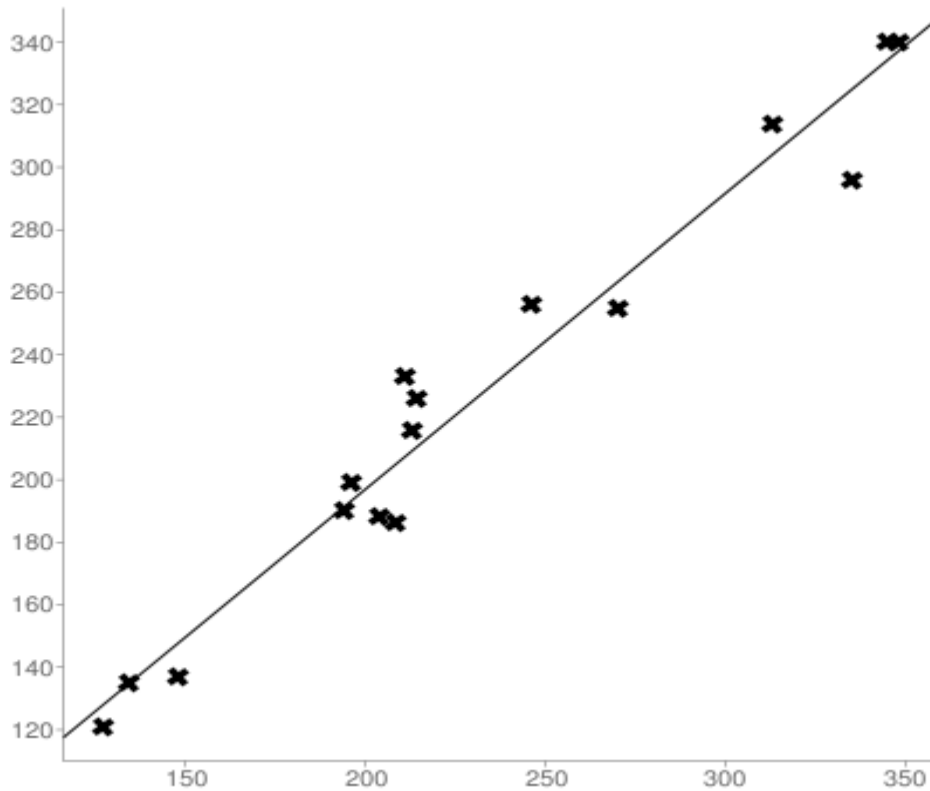
**Mean x ( $\bar{x}$ ): 231.625**

**Mean y ( $\bar{y}$ ): 227**

**Intercept (a): 7.6949017721113**

**Slope (b): 0.94681100152353**

**Regression line equation:  $y = 7.6949017721113 + 0.94681100152353x$**



# Coefficient of Correlation (“r”): MCV

x = Horiba Reference Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.  
y = VDX Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.

$$“r” = 0.997$$

**Sample size: 16**

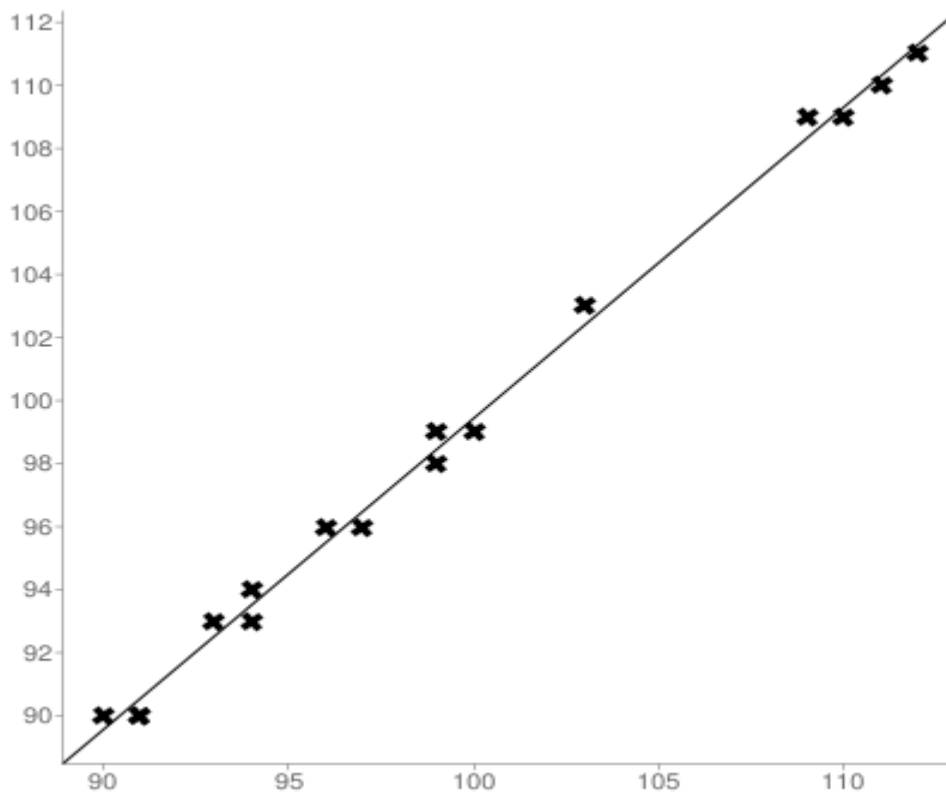
**Mean x ( $\bar{x}$ ): 99.3125**

**Mean y ( $\bar{y}$ ): 98.75**

**Intercept (a): 0.73328959836724**

**Slope (b): 0.98695240177856**

**Regression line equation:  $y=0.73328959836724+0.98695240177856x$**



# Coefficient of Correlation (“r”): HCT

x = Horiba Reference Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.  
y = VDX Reagents for ABX Micros ES60, 3 Part Hematology Analyzer.

$$“r” = 0.971$$

**Sample size: 16**

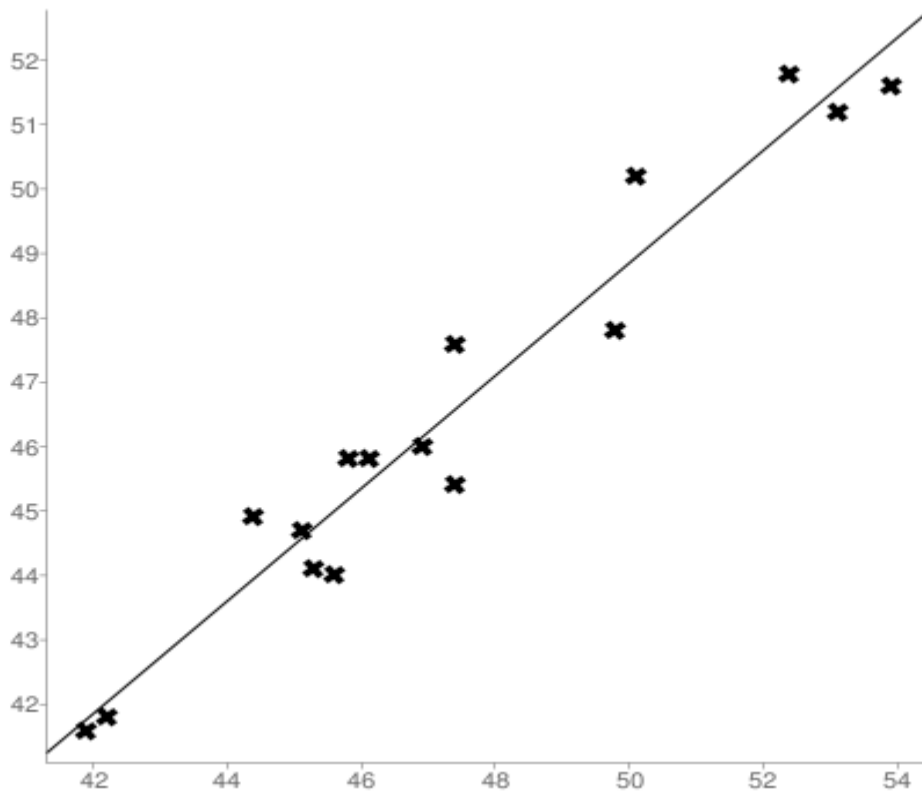
**Mean x ( $\bar{x}$ ): 47.3375**

**Mean y ( $\bar{y}$ ): 46.51875**

**Intercept (a): 5.1421859689746**

**Slope (b): 0.87407581792502**

**Regression line equation:  $y=5.1421859689746+0.87407581792502x$**



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

### **Diagon D Check D**

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

**Lot No : 1V0901**

**Expiry : 05.03.2023**

**Diagon D Check D**  
**(Low Control, Lot - 1V0901, Exp.- 05.03.2023)**

Parameters	All Reagents: Vanguard Diagnostics VDx Diluent-A Lot- HVDA221015 VDx Lyse-A Lot- HVLA220804 VDx Cleaner-A Lot- HVRA220807	All Reagents: Horiba as Reference Minidil LMG Lot- 220407F17 Minilysebio Lot- 220412B47 ABX Miniclean Lot- 220518T17	Range
WBC (10 <sup>3</sup> /mm <sup>3</sup> )	2.5	2.5	1.9 - 2.9
Lym (%)	45.5	47.6	40.1 - 74.5
Mon (%)	11.3	11.6	1.3 - 11.7
Gran (%)	43.2	40.8	23.5 - 48.9
Lym# (10 <sup>3</sup> /mm <sup>3</sup> )	1.10	1.20	0.7 - 1.9
Mon# (10 <sup>3</sup> /mm <sup>3</sup> )	0.20	0.20	0.0 - 0.2
Gran# (10 <sup>3</sup> /mm <sup>3</sup> )	1.20	1.10	0.6 - 1.4
RBC (10 <sup>6</sup> /mm <sup>3</sup> )	2.39	2.33	2.18 - 2.58
HGB (g/dl)	6.9	6.3	6.4 - 7.4
HCT (%)	19.1	18.3	15.3 - 21.3
MCV (µm <sup>3</sup> )	80	78	71.0 - 83.0
MCH (pg)	28.8	27.2	25.1 - 32.7
MCHC (g/dl)	36.1	34.7	32.8 - 42.4
RDW (%)	12.9	12.6	10.8 - 20.8
PLT (10 <sup>3</sup> /mm <sup>3</sup> )	86	87	53 - 103
MPV (µm <sup>3</sup> )	10.0	9.6	4.9 - 10.9
PCT (%)	0.086	0.084	0.007 - 0.107
PDW (%)	9.0	8.3	6.9 - 12.9

**Diagon D Check D**  
**(Normal Control, Lot - 1V0901, Exp.- 05.03.2023)**

Parameters	All Reagents: Vanguard Diagnostics VDx Diluent-A Lot- HVDA221015 VDx Lyse-A Lot- HVLA220804 VDx Cleaner-A Lot- HVRA220807	All Reagents: Horiba as Reference Minidil LMG Lot- 220407F17 Minilysebio Lot-220412B47 ABX Miniclean Lot- 220518T17	Range
WBC (10 <sup>3</sup> /mm <sup>3</sup> )	7.7	7.6	6.0 - 8.0
Lym (%)	32.0	33.3	24.6 - 45.6
Mon (%)	5.9	5.8	2.0 - 17.4
Gran (%)	62.1	60.9	41.4 - 69.0
Lym# (10 <sup>3</sup> /mm <sup>3</sup> )	2.40	2.50	1.7 - 3.1
Mon# (10 <sup>3</sup> /mm <sup>3</sup> )	0.40	0.40	0.2 - 1.0
Gran# (10 <sup>3</sup> /mm <sup>3</sup> )	4.90	4.70	2.8 - 5.2
RBC (10 <sup>6</sup> /mm <sup>3</sup> )	4.36	4.29	4.04 - 4.64
HGB (g/dl)	13.3	12.4	12.7 - 13.9
HCT (%)	37.2	35.8	31.4 - 40.4
MCV (μm <sup>3</sup> )	85	83	76.5 - 88.5
MCH (pg)	30.5	28.9	26.7 - 34.3
MCHC (g/dl)	35.8	34.7	32.2 - 41.8
RDW (%)	12.2	12.1	10.7 - 20.7
PLT (10 <sup>3</sup> /mm <sup>3</sup> )	238	251	189 - 279
MPV (μm <sup>3</sup> )	9.7	9.4	4.9 - 10.9
PCT (%)	0.231	0.235	0.077 - 0.277
PDW (%)	9.2	9.0	6.9 - 12.9

## Diagon D Check D (High Control, Lot - 1V0901, Exp.- 05.03.2023)

Parameters	All Reagents: Vanguard Diagnostics VDx Diluent-A Lot- HVDA221015 VDx Lyse-A Lot- HVLA220804 VDx Cleaner-A Lot- HVRA220807	All Reagents: Horiba as Reference Minidil LMG Lot- 220407F17 Minilysebio Lot- 220412B47 ABX Miniclean Lot- 220518T17	Range
WBC (10 <sup>3</sup> /mm <sup>3</sup> )	18.9	18.9	14.8 - 19.8
Lym (%)	26.9	26.8	18.8 - 35.0
Mon (%)	4.6	4.3	2.2 - 19.6
Gran (%)	68.5	68.9	46.7 - 77.7
Lym# (10 <sup>3</sup> /mm <sup>3</sup> )	5.00	5.00	3.2 - 6.0
Mon# (10 <sup>3</sup> /mm <sup>3</sup> )	0.80	0.80	0.7 - 2.9
Gran# (10 <sup>3</sup> /mm <sup>3</sup> )	13.10	13.10	8.2 - 13.6
RBC (10 <sup>6</sup> /mm <sup>3</sup> )	5.33	5.39	4.92 - 5.72
HGB (g/dl)	17.3	16.5	16.2 - 17.8
HCT (%)	49.0	48.5	42.5 - 51.5
MCV (μm <sup>3</sup> )	92	90	82.4 - 94.4
MCH (pg)	32.5	30.6	28.2 - 35.8
MCHC (g/dl)	35.4	34.1	31.4 - 41.0
RDW (%)	12.2	11.7	10.1 - 20.1
PLT (10 <sup>3</sup> /mm <sup>3</sup> )	523	508	401 - 571
MPV (μm <sup>3</sup> )	9.8	9.7	4.9 - 10.9
PCT (%)	0.512	0.491	0.170 - 0.570
PDW (%)	9.2	9.0	7.1 - 13.1



**ASSAY VALUES AND EXPECTED RANGES**
**LOT: 1V0901**

Vizsgálati értékek és várható tartományok


**05-03-2023**

Instruments:		ABX MICROS 60, ABX MICROS ES 60 SIEMENS ADVIA 60					
		CONTROL "Low"		CONTROL "Normal"		CONTROL "High"	
Parameter		LOT: 1V0901		LOT: 1V0901		LOT: 1V0901	
		Mean ± Limit	Range Variation	Mean ± Limit	Range Variation	Mean ± Limit	Range Variation
WBC	10 <sup>9</sup> /L	2,4 ± 0,5	1,9 - 2,9	7,0 ± 1,0	6,0 - 8,0	17,3 ± 2,5	14,8 - 19,8
RBC	10 <sup>12</sup> /L	2,38 ± 0,20	2,18 - 2,58	4,34 ± 0,30	4,04 - 4,64	5,32 ± 0,40	4,92 - 5,72
Hgb	g/dL	6,9 ± 0,5	6,4 - 7,4	13,3 ± 0,6	12,7 - 13,9	17,0 ± 0,8	16,2 - 17,8
	g/L	69 ± 5	64 - 74	133 ± 6	127 - 139	170 ± 8	162 - 178
Hct	%	18,3 ± 3,0	15,3 - 21,3	35,9 ± 4,5	31,4 - 40,4	47,0 ± 4,5	42,5 - 51,5
	L/L	0,183 ± 0,030	0,153 - 0,213	0,359 ± 0,045	0,314 - 0,404	0,470 ± 0,045	0,425 - 0,515
MCV	fL	77,0 ± 6,0	71,0 - 83,0	82,5 ± 6,0	76,5 - 88,5	88,4 ± 6,0	82,4 - 94,4
MCH	pg	28,9 ± 3,8	25,1 - 32,7	30,5 ± 3,8	26,7 - 34,3	32,0 ± 3,8	28,2 - 35,8
MCHC	g/dL	37,6 ± 4,8	32,8 - 42,4	37,0 ± 4,8	32,2 - 41,8	36,2 ± 4,8	31,4 - 41,0
	g/L	376 ± 48	328 - 424	370 ± 48	322 - 418	362 ± 48	314 - 410
RDW-CV	%	15,8 ± 5,0	10,8 - 20,8	15,7 ± 5,0	10,7 - 20,7	15,1 ± 5,0	10,1 - 20,1
Pit	10 <sup>9</sup> /L	78 ± 25	53 - 103	234 ± 45	189 - 279	486 ± 85	401 - 571
MPV	fL	7,9 ± 3,0	4,9 - 10,9	7,9 ± 3,0	4,9 - 10,9	7,9 ± 3,0	4,9 - 10,9
PDW		9,9 ± 3,0	6,9 - 12,9	9,9 ± 3,0	6,9 - 12,9	10,1 ± 3,0	7,1 - 13,1
PCT	%	0,057 ± 0,050	0,007 - 0,107	0,177 ± 0,100	0,077 - 0,277	0,370 ± 0,200	0,170 - 0,570
PCT	mL/L	0,57 ± 0,50	0,07 - 1,07	1,77 ± 1,00	0,77 - 2,77	3,70 ± 2,00	1,70 - 5,70
LYMPH#	10 <sup>9</sup> /L	1,3 ± 0,6	0,7 - 1,9	2,4 ± 0,7	1,7 - 3,1	4,6 ± 1,4	3,2 - 6,0
MID#	10 <sup>9</sup> /L	0,1 ± 0,1	0,0 - 0,2	0,6 ± 0,4	0,2 - 1,0	1,8 ± 1,1	0,7 - 2,9
GRAN#	10 <sup>9</sup> /L	1,0 ± 0,4	0,6 - 1,4	4,0 ± 1,2	2,8 - 5,2	10,9 ± 2,7	8,2 - 13,6
LYMPH%	%	57,3 ± 17,2	40,1 - 74,5	35,1 ± 10,5	24,6 - 45,6	26,9 ± 8,1	18,8 - 35,0
MID%	%	6,5 ± 5,2	1,3 - 11,7	9,7 ± 7,7	2,0 - 17,4	10,9 ± 8,7	2,2 - 19,6
GRAN%	%	36,2 ± 12,7	23,5 - 48,9	55,2 ± 13,8	41,4 - 69,0	62,2 ± 15,5	46,7 - 77,7

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 Horiba Reagents on ABX Micros ES60, 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 VDx Horiba compatible reagent on Horiba Micros ES60, 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 ( $10^3/\text{mm}^3$ )	5.4	5.3	5.2	5.3	5.5	5.5	5.6				5.40	0.14	0.03	2.62
Lym (%)	39.8	40.2	40.1	39.6	39.1	40.9	40.8				40.07	0.64	0.02	1.60
Mon (%)	9.3	9.1	8.9	9.5	9.3	9.3	9.3				9.24	0.19	0.02	2.06
Gran (%)	50.9	50.7	51	50.9	51.6	49.8	49.9				50.69	0.64	0.01	1.26
Lym# ( $10^3/\text{mm}^3$ )	2.1	2.1	2.1	2.1	2.1	2.2	2.2				2.13	0.05	0.02	2.29
Mon# ( $10^3/\text{mm}^3$ )	0.5	0.5	0.5	0.50	0.50	0.50	0.50				0.50	0.00	0.00	0.00
Gran# ( $10^3/\text{mm}^3$ )	2.8	2.8	2.7	2.70	2.90	2.80	2.90				2.80	0.08	0.03	2.92
RBC ( $10^6/\text{mm}^3$ )	5.55	5.29	5.39	5.4	5.39	5.46	5.5				5.43	0.09	0.02	1.57
HGB (g/dl)	17.4	16.5	16.8	16.9	17	17	17.1				16.96	0.28	0.02	1.63
HCT (%)	53.6	50.8	52.1	51.9	51.9	52.6	53.1				52.29	0.92	0.02	1.75
MCV ( $\mu\text{m}^3$ )	97	96	97	96	96	96	96				96.29	0.49	0.01	0.51
MCH (pg)	31.3	31.3	31.2	31.3	31.5	31.2	31.1				31.27	0.13	0.00	0.40
MCHC (g/dl)	32.4	32.6	32.3	32.6	32.7	32.4	32.3				32.47	0.16	0.00	0.49
RDW (%)	14.1	14.1	13.7	14.3	14	14.2	14.3				14.10	0.21	0.01	1.48
PLT ( $10^3/\text{mm}^3$ )	221	214	217	225	216	229	235				222.43	7.66	0.03	3.44
MPV ( $\mu\text{m}^3$ )	10.70	10.70	10.80	10.70	10.60	10.50	10.80				10.69	0.11	0.01	1.00
PCT (%)	0.235	0.23	0.223	0.239	0.219	0.24	0.253				0.23	0.01	0.05	4.88
PDW (%)	15.80	15.60	16.30	16.50	17.20	17.10	16.70				16.46	0.61	0.04	3.69

# Coefficient of Variation:

## Precision (Horiba Reference Reagent)

1. Fresh blood sample was collected and tested with the Horiba Reference Reagents on ABX Micros ES60, 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**

<b>Precision Evaluation report of Horiba Reference reagent on Horiba Micros ES60, 3 Part Hematology Analyzer</b>														
<b>Fresh Blood Sample</b>														
<b>Parameters</b>	<b>Ist</b>	<b>IIInd Repeat</b>	<b>IIIrd Repeat</b>	<b>IVth Repeat</b>	<b>Vth Repeat</b>	<b>VIth Repeat</b>	<b>VIIth Repeat</b>	<b>VIIIth Repeat</b>	<b>IXth Repeat</b>	<b>Xth Repeat</b>	<b>Mean</b>	<b>SD</b>	<b>CV</b>	<b>CV%</b>
WBC (10 <sup>3</sup> /mm <sup>3</sup> )	5.5	5.8	5.6	5.7	5.7	5.6	5.7				5.66	0.10	0.02	1.73
Lym (%)	44.2	45.5	45.4	44.9	45	45.4	48				45.49	1.20	0.03	2.63
Mon (%)	7.4	7.4	8.2	7.7	7.7	7.9	7.4				7.67	0.30	0.04	3.96
Gran (%)	48.4	47.1	46.4	47.4	47.3	46.7	44.6				46.84	1.17	0.03	2.50
Lym# (10 <sup>3</sup> /mm <sup>3</sup> )	2.4	2.6	2.5	2.5	2.5	2.5	2.7				2.53	0.10	0.04	3.76
Mon# (10 <sup>3</sup> /mm <sup>3</sup> )	0.4	0.40	0.40	0.40	0.40	0.40	0.40				0.40	0.00	0.00	0.00
Gran# (10 <sup>3</sup> /mm <sup>3</sup> )	2.7	2.80	2.70	2.80	2.80	2.70	2.60				2.73	0.08	0.03	2.77
RBC (10 <sup>6</sup> /mm <sup>3</sup> )	5.4	5.53	5.53	5.45	5.41	5.45	5.51				5.47	0.05	0.01	1.00
HGB (g/dl)	15.3	15.7	15.4	15.6	15.4	15.5	15.7				15.51	0.16	0.01	1.01
HCT (%)	52.1	53.8	53.4	52.6	52.6	53.3	53.2				53.00	0.59	0.01	1.11
MCV (μm <sup>3</sup> )	96	97	96	96	97	98	97				96.71	0.76	0.01	0.78
MCH (pg)	28.4	28.3	27.9	28.5	28.5	28.4	28.5				28.36	0.21	0.01	0.76
MCHC (g/dl)	29.4	29.1	28.9	29.6	29.2	29.1	29.5				29.26	0.25	0.01	0.86
RDW (%)	14.4	14.6	14.3	14.3	14.6	14.7	14.3				14.46	0.17	0.01	1.19
PLT (10 <sup>3</sup> /mm <sup>3</sup> )	208	205	193	195	188	205	216				201.43	9.78	0.05	4.85
MPV (μm <sup>3</sup> )	10.30	10.10	10.30	10.40	10.10	10.20	10.00				10.20	0.14	0.01	1.39
PCT (%)	0.214	0.207	0.198	0.203	0.191	0.210	0.216				0.21	0.01	0.04	4.34
PDW (%)	15.30	15.40	15.70	16.00	14.50	13.80	16.20				15.27	0.85	0.06	5.58

## Conclusions

1. The V Dx Horiba 3 Part Hematology Reagents showed an excellent Coefficient of Correlation (“r”) using Horiba Original reagents as Reference.
2. All Measurable parameters showed values of “r” in the range of **0.970 to 0.997** displaying the highest degree of correlation between the reagents.
3. The V Dx Horiba and the Horiba Reference 3 Part Hematology Reagents showed an excellent coefficient of Variation (CV %) for all parameters.
4. The CV % of Precision with the V Dx Horiba reagents and the Horiba Reference reagents for the parameters are mentioned below.

Parameters	Horiba Reference Reagents (CV % of Precision)	V Dx Horiba Reagents (CV % of Precision)
Measured Parameters	0.78% – 4.85%	0.51% - 3.44%
Calculated Parameters	0.00% - 5.58%	0.00% - 4.88%

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