

# XN CHECK ASSAY SHEET

## for XN series

### Level L1

**LOT**
**4077 1101**

**16-Jun-2024**

	RBC [10 <sup>6</sup> /μL]	HGB		HCT		MCV [fL]	MCH		MCHC	
		[g/dL]	[mmol/L]	[%]	[L/L]		[pg]	[fmol]	[g/dL]	[mmol/L]
Range	2.81	6.8	4.3	22.0	0.220	78.2	26.5	1.640	37.4	23.2
	2.55	6.2	3.9	18.0	0.180	70.8	22.1	1.370	27.6	17.2
Mean	2.68	6.5	4.1	20.0	0.200	74.5	24.3	1.505	32.5	20.2
Limit [%]	5.0	4.6	4.6	10.0	10.0	5.0	9.0	9.0	15.0	15.0
Limit [#]	0.13	0.3	0.2	2.0	0.020	3.7	2.2	0.135	4.9	3.0

	PLT [10 <sup>3</sup> /μL]	RDW-SD [fL]	RDW-CV [%]	PDW [fL]	PCT [%]	MPV [fL]	P-LCR [%]	PLT-F [10 <sup>3</sup> /μL]	IPF [%]	IPF# [10 <sup>3</sup> /μL]
Range	126	53.7	20.6	11.2	0.15	9.8	17.0	118	24.1	31.2
	54	43.9	16.8	1.2	0.00	6.6	0.0	50	14.1	0.8
Mean	90	48.8	18.7	6.2	0.07	8.2	6.8	84	19.1	16.0
Limit [%]	40.0	10.0	10.0	80.0	116.0	20.0	150.0	40.0	26.2	95.0
Limit [#]	36	4.9	1.9	5.0	0.08	1.6	10.2	34	5.0	15.2

	WBC [10 <sup>3</sup> /μL]	WBC-D [10 <sup>3</sup> /μL]	WBC-P [10 <sup>3</sup> /μL]	NEUT# [10 <sup>3</sup> /μL]	LYMPH# [10 <sup>3</sup> /μL]	MONO# [10 <sup>3</sup> /μL]	EO# [10 <sup>3</sup> /μL]	BASO# [10 <sup>3</sup> /μL]	IG# [10 <sup>3</sup> /μL]	NRBC# [10 <sup>3</sup> /μL]
Range	3.39	3.45	3.41	1.43	1.44	0.76	0.44	0.27	0.39	0.23
	2.77	2.83	2.79	0.95	0.62	0.08	0.14	0.03	0.21	0.07
Mean	3.08	3.14	3.10	1.19	1.03	0.42	0.29	0.15	0.30	0.15
Limit [%]	10.0	10.0	10.0	20.0	40.0	80.0	50.0	78.0	30.0	50.0
Limit [#]	0.31	0.31	0.31	0.24	0.41	0.34	0.15	0.12	0.09	0.08

	NEUT% [%]	LYMPH% [%]	MONO% [%]	EO% [%]	BASO% [%]	IG% [%]	NRBC% [%]	HPC% [%]	HPC# [10 <sup>3</sup> /μL]
Range	46.4	46.8	24.5	14.1	8.7	12.6	7.4	1.50	0.047
	31.0	20.0	2.7	4.7	1.1	6.8	2.4	0.50	0.015
Mean	38.7	33.4	13.6	9.4	4.9	9.7	4.9	1.00	0.031
Limit [%]	20.0	40.0	80.0	50.0	78.0	30.0	50.0	50.0	50.0
Limit [#]	7.7	13.4	10.9	4.7	3.8	2.9	2.5	0.50	0.016

	RET# [10 <sup>9</sup> /μL]	RET% [%]	HFR [%]	MFR [%]	LFR [%]	IRF [%]	RET-He		RBC-O [10 <sup>9</sup> /μL]	PLT-O [10 <sup>9</sup> /μL]
							[pg]	[fmol]		
Range	0.2037	7.02	19.7	65.2	87.1	81.9	26.7	1.659	2.87	154
	0.1097	4.68	0.0	9.2	21.1	9.9	21.9	1.357	2.35	66
Mean	0.1567	5.85	8.7	37.2	54.1	45.9	24.3	1.508	2.61	110
Limit [%]	30.0	20.0	126.4	75.3	61.0	78.4	10.0	10.0	10.0	40.0
Limit [#]	0.0470	1.17	11.0	28.0	33.0	36.0	2.4	0.151	0.26	44

	RBC-He		HYPO-He [%]	HYPER-He [%]	MicroR [%]	MacroR [%]	AS-LYMP# [10 <sup>3</sup> /μL]	AS-LYMP% [%]	RE-LYMP# [10 <sup>3</sup> /μL]	RE-LYMP% [%]
	[pg]	[fmol]								
Range	30.1	1.866	7.5	0.9	35.0	3.8	0.27	8.8	0.42	13.4
	20.1	1.244	0.9	0.0	8.8	1.2	0.07	2.2	0.10	3.4
Mean	25.1	1.555	4.2	0.2	21.9	2.5	0.17	5.5	0.26	8.4
Limit [%]	20.0	20.0	78.0	350.0	60.0	50.0	60.0	60.0	60.0	60.0
Limit [#]	5.0	0.311	3.3	0.7	13.1	1.3	0.10	3.3	0.16	5.0

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# XN CHECK ASSAY SHEET

## for XN series

### Level L2

**LOT**
**4077 1102**

**16-Jun-2024**

	RBC [10 <sup>6</sup> /μL]	HGB		HCT		MCV [fL]	MCH		MCHC	
		[g/dL]	[mmol/L]	[%]	[L/L]		[pg]	[fmol]	[g/dL]	[mmol/L]
Range	4.55	12.3	7.6	38.6	0.386	85.1	29.5	1.826	38.3	23.8
	4.11	11.3	7.0	31.6	0.316	76.9	25.1	1.556	28.9	18.0
Mean	4.33	11.8	7.3	35.1	0.351	81.0	27.3	1.691	33.6	20.9
Limit [%]	5.0	4.0	4.0	10.0	10.0	5.0	8.0	8.0	14.0	14.0
Limit [#]	0.22	0.5	0.3	3.5	0.035	4.1	2.2	0.135	4.7	2.9

	PLT [10 <sup>3</sup> /μL]	RDW-SD [fL]	RDW-CV [%]	PDW [fL]	PCT [%]	MPV [fL]	P-LCR [%]	PLT-F [10 <sup>3</sup> /μL]	IPF [%]	IPF# [10 <sup>3</sup> /μL]
Range	270	50.8	18.0	10.3	0.30	10.8	50.0	326	25.2	88.7
	200	41.6	14.8	7.5	0.16	9.0	0.0	176	15.2	12.7
Mean	235	46.2	16.4	8.9	0.23	9.9	20.0	251	20.2	50.7
Limit [%]	15.0	10.0	10.0	16.0	30.0	9.0	150.0	30.0	24.8	75.0
Limit [#]	35	4.6	1.6	1.4	0.07	0.9	30.0	75	5.0	38.0

	WBC [10 <sup>3</sup> /μL]	WBC-D [10 <sup>3</sup> /μL]	WBC-P [10 <sup>3</sup> /μL]	NEUT# [10 <sup>3</sup> /μL]	LYMPH# [10 <sup>3</sup> /μL]	MONO# [10 <sup>3</sup> /μL]	EO# [10 <sup>3</sup> /μL]	BASO# [10 <sup>3</sup> /μL]	IG# [10 <sup>3</sup> /μL]	NRBC# [10 <sup>3</sup> /μL]
Range	7.39	7.53	7.47	3.52	2.45	1.26	1.08	0.59	1.00	0.62
	6.49	6.61	6.23	2.60	1.63	0.32	0.36	0.07	0.54	0.20
Mean	6.94	7.07	6.85	3.06	2.04	0.79	0.72	0.33	0.77	0.41
Limit [%]	6.5	6.5	9.0	15.0	20.0	60.0	50.0	78.0	30.0	50.0
Limit [#]	0.45	0.46	0.62	0.46	0.41	0.47	0.36	0.26	0.23	0.21

	NEUT% [%]	LYMPH% [%]	MONO% [%]	EO% [%]	BASO% [%]	IG% [%]	NRBC% [%]	HPC% [%]	HPC# [10 <sup>3</sup> /μL]
Range	50.6	35.3	18.2	15.6	8.5	14.4	8.9	1.39	0.095
	37.4	23.5	4.6	5.2	1.1	7.8	2.9	0.59	0.041
Mean	44.0	29.4	11.4	10.4	4.8	11.1	5.9	0.99	0.068
Limit [%]	15.0	20.0	60.0	50.0	78.0	30.0	50.0	40.0	40.0
Limit [#]	6.6	5.9	6.8	5.2	3.7	3.3	3.0	0.40	0.027

	RET# [10 <sup>9</sup> /μL]	RET% [%]	HFR [%]	MFR [%]	LFR [%]	IRF [%]	RET-He		RBC-O [10 <sup>9</sup> /μL]	PLT-O [10 <sup>9</sup> /μL]
							[pg]	[fmol]		
Range	0.1359	2.89	20.2	66.5	85.3	83.7	27.4	1.698	4.58	319
	0.0731	1.93	0.0	10.5	19.3	11.7	22.4	1.390	3.74	171
Mean	0.1045	2.41	9.2	38.5	52.3	47.7	24.9	1.544	4.16	245
Limit [%]	30.0	20.0	119.6	72.7	63.1	75.5	10.0	10.0	10.0	30.0
Limit [#]	0.0314	0.48	11.0	28.0	33.0	36.0	2.5	0.154	0.42	74

	RBC-He		HYPO-He [%]	HYPER-He [%]	MicroR [%]	MacroR [%]	AS-LYMP# [10 <sup>3</sup> /μL]	AS-LYMP% [%]	RE-LYMP# [10 <sup>3</sup> /μL]	RE-LYMP% [%]
	[pg]	[fmol]								
Range	33.2	2.065	2.4	1.1	14.3	5.7	0.50	7.2	0.77	11.0
	22.2	1.377	0.0	0.0	2.5	2.5	0.16	2.4	0.25	3.6
Mean	27.7	1.721	1.0	0.4	8.4	4.1	0.33	4.8	0.51	7.3
Limit [%]	20.0	20.0	140.0	175.0	70.0	40.0	50.0	50.0	50.0	50.0
Limit [#]	5.5	0.344	1.4	0.7	5.9	1.6	0.17	2.4	0.26	3.7

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# XN CHECK ASSAY SHEET

## for XN series

### Level L3

**LOT**
**4077 1103**

**16-Jun-2024**

	RBC [10 <sup>6</sup> /μL]	HGB		HCT		MCV [fL]	MCH		MCHC	
		[g/dL]	[mmol/L]	[%]	[L/L]		[pg]	[fmol]	[g/dL]	[mmol/L]
Range	5.33	16.1	10.0	49.6	0.496	93.1	32.9	2.046	39.2	24.3
	4.83	14.9	9.2	40.6	0.406	84.3	28.1	1.742	29.6	18.3
Mean	5.08	15.5	9.6	45.1	0.451	88.7	30.5	1.894	34.4	21.3
Limit [%]	5.0	4.0	4.0	10.0	10.0	5.0	8.0	8.0	14.0	14.0
Limit [#]	0.25	0.6	0.4	4.5	0.045	4.4	2.4	0.152	4.8	3.0

	PLT [10 <sup>3</sup> /μL]	RDW-SD [fL]	RDW-CV [%]	PDW [fL]	PCT [%]	MPV [fL]	P-LCR [%]	PLT-F [10 <sup>3</sup> /μL]	IPF [%]	IPF# [10 <sup>3</sup> /μL]
Range	577	53.0	16.9	10.1	0.64	10.4	47.5	612	25.2	182.8
	481	43.4	13.9	7.9	0.38	9.0	0.0	452	15.2	32.2
Mean	529	48.2	15.4	9.0	0.51	9.7	19.0	532	20.2	107.5
Limit [%]	9.0	10.0	10.0	12.0	25.0	7.0	150.0	15.0	24.8	70.0
Limit [#]	48	4.8	1.5	1.1	0.13	0.7	28.5	80	5.0	75.3

	WBC [10 <sup>3</sup> /μL]	WBC-D [10 <sup>3</sup> /μL]	WBC-P [10 <sup>3</sup> /μL]	NEUT# [10 <sup>3</sup> /μL]	LYMPH# [10 <sup>3</sup> /μL]	MONO# [10 <sup>3</sup> /μL]	EO# [10 <sup>3</sup> /μL]	BASO# [10 <sup>3</sup> /μL]	IG# [10 <sup>3</sup> /μL]	NRBC# [10 <sup>3</sup> /μL]
Range	17.83	18.12	17.62	9.33	4.85	2.85	2.82	1.44	2.53	1.67
	15.65	15.90	15.46	6.89	3.23	0.95	0.94	0.18	1.51	0.55
Mean	16.74	17.01	16.54	8.11	4.04	1.90	1.88	0.81	2.02	1.11
Limit [%]	6.5	6.5	6.5	15.0	20.0	50.0	50.0	78.0	25.0	50.0
Limit [#]	1.09	1.11	1.08	1.22	0.81	0.95	0.94	0.63	0.51	0.56

	NEUT% [%]	LYMPH% [%]	MONO% [%]	EO% [%]	BASO% [%]	IG% [%]	NRBC% [%]	HPC% [%]	HPC# [10 <sup>3</sup> /μL]
Range	55.8	28.9	17.1	16.8	8.5	15.1	9.9	1.27	0.211
	41.2	19.3	5.7	5.6	1.1	9.1	3.3	0.69	0.113
Mean	48.5	24.1	11.4	11.2	4.8	12.1	6.6	0.98	0.162
Limit [%]	15.0	20.0	50.0	50.0	78.0	25.0	50.0	30.0	30.0
Limit [#]	7.3	4.8	5.7	5.6	3.7	3.0	3.3	0.29	0.049

	RET# [10 <sup>9</sup> /μL]	RET% [%]	HFR [%]	MFR [%]	LFR [%]	IRF [%]	RET-He		RBC-O [10 <sup>9</sup> /μL]	PLT-O [10 <sup>9</sup> /μL]
							[pg]	[fmol]		
Range	0.0775	1.58	18.7	59.1	94.2	74.8	28.5	1.770	5.32	610
	0.0417	0.76	0.0	3.1	28.2	2.8	23.3	1.448	4.36	450
Mean	0.0596	1.17	7.7	31.1	61.2	38.8	25.9	1.609	4.84	530
Limit [%]	30.0	35.0	142.9	90.0	53.9	92.8	10.0	10.0	10.0	15.0
Limit [#]	0.0179	0.41	11.0	28.0	33.0	36.0	2.6	0.161	0.48	80

	RBC-He		HYPO-He [%]	HYPER-He [%]	MicroR [%]	MacroR [%]	AS-LYMP# [10 <sup>3</sup> /μL]	AS-LYMP% [%]	RE-LYMP# [10 <sup>3</sup> /μL]	RE-LYMP% [%]
	[pg]	[fmol]								
Range	36.0	2.236	1.7	1.6	4.9	6.6	1.02	6.2	1.56	9.3
	24.0	1.490	0.0	0.0	0.5	2.8	0.34	2.0	0.52	3.1
Mean	30.0	1.863	0.6	0.6	2.7	4.7	0.68	4.1	1.04	6.2
Limit [%]	20.0	20.0	186.7	166.7	80.0	40.0	50.0	50.0	50.0	50.0
Limit [#]	6.0	0.373	1.1	1.0	2.2	1.9	0.34	2.1	0.52	3.1

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