

# XN CHECK ASSAY SHEET

## for XN series

### Level L1

**LOT**
**4133 1101**

**11-Aug-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	2.78	6.9	4.3	21.6	0.216	77.7	27.1	1.685	38.8	24.0
	2.52	6.3	3.9	17.6	0.176	70.3	22.7	1.407	28.6	17.8
Mean	2.65	6.6	4.1	19.6	0.196	74.0	24.9	1.546	33.7	20.9
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	0.139	5.1	3.1

	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	134	52.5	19.9	11.5	0.17	10.0	17.8	125	24.3	33.5
	58	42.9	16.3	1.3	0.00	6.6	0.0	53	14.3	0.9
Mean	96	47.7	18.1	6.4	0.08	8.3	7.1	89	19.3	17.2
Limit [%]	40.0	10.0	10.0	80.0	116.0	20.0	150.0	40.0	25.9	95.0
Limit [#]	38	4.8	1.8	5.1	0.09	1.7	10.7	36	5.0	16.3

	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	3.33	3.41	3.31	1.40	1.48	0.67	0.42	0.27	0.39	0.23
	2.73	2.79	2.71	0.94	0.64	0.07	0.14	0.03	0.21	0.07
Mean	3.03	3.10	3.01	1.17	1.06	0.37	0.28	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 [#]	0.30	0.31	0.30	0.23	0.42	0.30	0.14	0.12	0.09	0.08

	NEUT% [%]	LYMPH% [%]	MONO% [%]	EO% [%]	BASO% [%]	IG% [%]	NRBC% [%]	HPC% [%]	HPC# [10 <sup>3</sup> /μL]
Range	46.3	49.0	22.0	13.8	8.9	12.9	7.5	1.50	0.045
	30.9	21.0	2.4	4.6	1.1	6.9	2.5	0.50	0.015
Mean	38.6	35.0	12.2	9.2	5.0	9.9	5.0	1.00	0.030
Limit [%]	20.0	40.0	80.0	50.0	78.0	30.0	50.0	50.0	50.0
Limit [#]	7.7	14.0	9.8	4.6	3.9	3.0	2.5	0.50	0.015

	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	0.2071	7.21	19.6	60.2	92.2	76.8	26.5	1.645	2.83	160
	0.1115	4.81	0.0	4.2	26.2	4.8	21.7	1.345	2.31	68
Mean	0.1593	6.01	8.6	32.2	59.2	40.8	24.1	1.495	2.57	114
Limit [%]	30.0	20.0	127.9	87.0	55.7	88.2	10.0	10.0	10.0	40.0
Limit [#]	0.0478	1.20	11.0	28.0	33.0	36.0	2.4	0.150	0.26	46

	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	30.8	1.912	5.4	0.9	32.3	3.8	0.29	9.4	0.43	14.2
	20.6	1.274	0.2	0.0	8.1	1.2	0.07	2.4	0.11	3.6
Mean	25.7	1.593	2.8	0.2	20.2	2.5	0.18	5.9	0.27	8.9
Limit [%]	20.0	20.0	93.4	350.0	60.0	50.0	60.0	60.0	60.0	60.0
Limit [#]	5.1	0.319	2.6	0.7	12.1	1.3	0.11	3.5	0.16	5.3

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# XN CHECK ASSAY SHEET

## for XN series

### Level L2

**LOT**
**4133 1102**

**11-Aug-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	4.50	11.8	7.3	36.9	0.369	82.1	28.4	1.766	38.4	23.8
	4.08	10.8	6.7	30.1	0.301	74.3	24.2	1.504	29.0	18.0
Mean	4.29	11.3	7.0	33.5	0.335	78.2	26.3	1.635	33.7	20.9
Limit [%]	5.0	4.0	4.0	10.0	10.0	5.0	8.0	8.0	14.0	14.0
Limit [#]	0.21	0.5	0.3	3.4	0.034	3.9	2.1	0.131	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	277	52.5	19.0	9.7	0.30	10.2	39.8	328	25.3	89.6
	205	42.9	15.6	7.1	0.16	8.6	0.0	176	15.3	12.8
Mean	241	47.7	17.3	8.4	0.23	9.4	15.9	252	20.3	51.2
Limit [%]	15.0	10.0	10.0	16.0	30.0	9.0	150.0	30.0	24.6	75.0
Limit [#]	36	4.8	1.7	1.3	0.07	0.8	23.9	76	5.0	38.4

	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	7.56	7.73	7.54	3.54	2.42	1.42	1.16	0.61	1.01	0.68
	6.64	6.79	6.30	2.62	1.62	0.36	0.38	0.07	0.55	0.22
Mean	7.10	7.26	6.92	3.08	2.02	0.89	0.77	0.34	0.78	0.45
Limit [%]	6.5	6.5	9.0	15.0	20.0	60.0	50.0	78.0	30.0	50.0
Limit [#]	0.46	0.47	0.62	0.46	0.40	0.53	0.39	0.27	0.23	0.23

	NEUT% [%]	LYMPH% [%]	MONO% [%]	EO% [%]	BASO% [%]	IG% [%]	NRBC% [%]	HPC% [%]	HPC# [10 <sup>3</sup> /μL]
Range	49.9	34.2	20.0	16.2	8.5	14.3	9.5	1.40	0.097
	36.9	22.8	5.0	5.4	1.1	7.7	3.1	0.60	0.041
Mean	43.4	28.5	12.5	10.8	4.8	11.0	6.3	1.00	0.069
Limit [%]	15.0	20.0	60.0	50.0	78.0	30.0	50.0	40.0	40.0
Limit [#]	6.5	5.7	7.5	5.4	3.7	3.3	3.2	0.40	0.028

	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	0.1321	2.84	19.2	60.1	92.7	76.3	27.2	1.687	4.55	324
	0.0711	1.90	0.0	4.1	26.7	4.3	22.2	1.381	3.73	174
Mean	0.1016	2.37	8.2	32.1	59.7	40.3	24.7	1.534	4.14	249
Limit [%]	30.0	20.0	134.2	87.2	55.3	89.3	10.0	10.0	10.0	30.0
Limit [#]	0.0305	0.47	11.0	28.0	33.0	36.0	2.5	0.153	0.41	75

	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	32.5	2.020	3.1	1.0	19.7	5.3	0.51	7.2	0.77	10.8
	21.7	1.346	0.0	0.0	3.5	2.3	0.17	2.4	0.25	3.6
Mean	27.1	1.683	1.4	0.3	11.6	3.8	0.34	4.8	0.51	7.2
Limit [%]	20.0	20.0	120.0	233.3	70.0	40.0	50.0	50.0	50.0	50.0
Limit [#]	5.4	0.337	1.7	0.7	8.1	1.5	0.17	2.4	0.26	3.6

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# XN CHECK ASSAY SHEET

## for XN series

### Level L3

**LOT**
**4133 1103**

**11-Aug-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	5.32	16.4	10.2	49.6	0.496	93.5	33.7	2.089	39.9	24.7
	4.82	15.2	9.4	40.6	0.406	84.5	28.7	1.779	30.1	18.7
Mean	5.07	15.8	9.8	45.1	0.451	89.0	31.2	1.934	35.0	21.7
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	4.5	2.5	0.155	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	604	49.0	15.5	9.6	0.65	10.0	37.5	635	25.1	188.7
	504	40.0	12.7	7.6	0.39	8.6	0.0	469	15.1	33.3
Mean	554	44.5	14.1	8.6	0.52	9.3	15.0	552	20.1	111.0
Limit [%]	9.0	10.0	10.0	12.0	25.0	7.0	150.0	15.0	24.9	70.0
Limit [#]	50	4.5	1.4	1.0	0.13	0.7	22.5	83	5.0	77.7

	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	17.90	18.13	17.40	9.20	4.88	2.99	2.91	1.44	2.51	1.65
	15.72	15.91	15.28	6.80	3.26	0.99	0.97	0.18	1.51	0.55
Mean	16.81	17.02	16.34	8.00	4.07	1.99	1.94	0.81	2.01	1.10
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	1.06	1.20	0.81	1.00	0.97	0.63	0.50	0.55

	NEUT% [%]	LYMPH% [%]	MONO% [%]	EO% [%]	BASO% [%]	IG% [%]	NRBC% [%]	HPC% [%]	HPC# [10 <sup>3</sup> /μL]
Range	54.9	29.0	17.7	17.3	8.5	15.0	9.8	1.30	0.212
	40.5	19.4	5.9	5.7	1.1	9.0	3.2	0.70	0.114
Mean	47.7	24.2	11.8	11.5	4.8	12.0	6.5	1.00	0.163
Limit [%]	15.0	20.0	50.0	50.0	78.0	25.0	50.0	30.0	30.0
Limit [#]	7.2	4.8	5.9	5.8	3.7	3.0	3.3	0.30	0.049

	RET# [10 <sup>6</sup> /μL]	RET% [%]	HFR [%]	MFR [%]	LFR [%]	IRF [%]	RET-He		RBC-O [10 <sup>6</sup> /μL]	PLT-O [10 <sup>3</sup> /μL]
							[pg]	[fmol]		
Range	0.0755	1.55	17.9	54.2	99.9	69.1	28.3	1.753	5.36	636
	0.0407	0.75	0.0	0.0	33.9	0.0	23.1	1.435	4.38	470
Mean	0.0581	1.15	6.9	26.2	66.9	33.1	25.7	1.594	4.87	553
Limit [%]	30.0	35.0	159.4	106.9	49.3	108.8	10.0	10.0	10.0	15.0
Limit [#]	0.0174	0.40	11.0	28.0	33.0	36.0	2.6	0.159	0.49	83

	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	36.8	2.288	1.6	1.7	2.7	6.3	1.04	6.2	1.56	9.3
	24.6	1.526	0.0	0.0	0.3	2.7	0.34	2.0	0.52	3.1
Mean	30.7	1.907	0.5	0.7	1.5	4.5	0.69	4.1	1.04	6.2
Limit [%]	20.0	20.0	210.0	142.9	80.0	40.0	50.0	50.0	50.0	50.0
Limit [#]	6.1	0.381	1.1	1.0	1.2	1.8	0.35	2.1	0.52	3.1

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