Günter Keul GmbH

CBC-3D

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT B1126

2026-10-09

2027-02-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH31 DH33 DH36 (Technical File Version A5.0 or higher) DH31 Vet DH36 Vet (Technical File Version A1.0 to A4.0)	**WBC**	$\times10^9$/L	**2.05**	±0.60	**8.07**	±1.00	**21.83**	±2.50
	Lym%	%	61.2	±9.0	29.8	±8.0	13.4	±8.0
	Gran%	%	28.1	±9.0	60.1	±8.0	80.3	±8.0
	Mid%	%	10.7	±10.0	10.1	±6.0	6.3	±6.3
	Lym#	$\times10^9$/L	1.25	±0.30	2.40	±0.70	2.92	±2.00
	Gran#	$\times10^9$/L	0.58	±0.30	4.85	±0.70	17.53	±2.00
	Mid#	$\times10^9$/L	0.22	±0.20	0.82	±0.50	1.38	±0.80
	RBC	$\times10^{12}$/L	**2.30**	±0.24	**4.67**	±0.24	**5.80**	±0.50
	HGB	g/L	**58**	±6	**137**	±6	**189**	±8
	HCT	%	19.2	±2.0	44.1	±3.0	58.6	±4.0
	MCV	fL	**83.6**	±5.0	**94.4**	±5.0	**101.1**	±5.0
	MCH	pg	25.2	±2.5	29.3	±2.5	32.6	±2.5
	MCHC	g/L	302	±30	311	±30	323	±30
	RDW-CV	%	18.3	±3.0	18.0	±3.0	18.2	±3.0
	RDW-SD	fL	51.8	±8.0	57.9	±8.0	60.6	±8.0
	PLT	$\times10^9$/L	**70**	±20	**253**	±40	**521**	±60
	MPV	fL	8.5	±3.0	8.8	±3.0	8.5	±3.0
	PDW	fL	10.6	±3.0	10.9	±3.0	10.4	±3.0
	PCT	%	0.060	±0.060	0.223	±0.200	0.443	±0.200
	P-LCR	%	18.6	±10.0	18.6	±10.0	17.7	±10.0
	P-LCC	$\times10^9$/L	13	±13	47	±25	92	±30
	PDW	/	16.0	±3.0	16.2	±3.0	15.9	±3.0

【NOTE】

1. The controls should be stored in refrigerator (2℃~8℃). After opening, it will keep stable for 14 days when it is stored airtight at 2℃~8℃.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15℃~30℃).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.

Low Normal High

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH21 DH23 DH25 DH26 (Technical File Version A1.0 or higher)	**WBC**	$\times10^9$/L	**2.08**	±0.60	**7.97**	±1.00	**21.59**	±2.50
	Lym%	%	60.3	±9.0	29.9	±8.0	13.1	±8.0
	Gran%	%	29.6	±9.0	62.7	±8.0	81.7	±8.0
	Mid%	%	10.1	±10.0	7.4	±6.0	5.2	±5.2
	Lym#	$\times10^9$/L	1.25	±0.30	2.38	±0.70	2.83	±2.00
	Gran#	$\times10^9$/L	0.62	±0.30	5.00	±0.70	17.64	±2.00
	Mid#	$\times10^9$/L	0.21	±0.20	0.59	±0.50	1.12	±0.80
	RBC	$\times10^{12}$/L	**2.26**	±0.24	**4.47**	±0.24	**5.53**	±0.50
	HGB	g/L	**60**	±6	**142**	±6	**197**	±8
	HCT	%	18.2	±2.0	39.8	±3.0	52.5	±4.0
	MCV	fL	**80.5**	±5.0	**89.0**	±5.0	**95.0**	±5.0
	MCH	pg	26.5	±2.5	31.8	±2.5	35.6	±2.5
	MCHC	g/L	330	±30	357	±30	375	±30
	RDW-CV	%	17.4	±3.0	15.9	±3.0	15.6	±3.0
	RDW-SD	fL	52.2	±8.0	52.4	±8.0	54.2	±8.0
	PLT	$\times10^9$/L	**61**	±20	**240**	±40	**499**	±60
	MPV	fL	9.3	±3.0	9.3	±3.0	8.9	±3.0
	PDW	fL	10.4	±3.0	10.2	±3.0	9.8	±3.0
	PCT	%	0.057	±0.057	0.223	±0.200	0.444	±0.200
	P-LCR	%	24.6	±10.0	23.8	±10.0	21.4	±10.0
	P-LCC	$\times10^9$/L	15	±15	57	±25	107	±30

【NOTE】

1. The controls should be stored in refrigerator (2℃~8℃). After opening, it will keep stable for 14 days when it is stored airtight at 2℃~8℃.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15℃~30℃).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.

Low Normal High

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH20 DH22 (Technical File Version B1.0 or higher)	**WBC**	$\times10^9$/L	**2.06**	±0.60	**7.98**	±1.00	**21.63**	±2.50
	Lym%	%	59.4	±9.0	29.6	±8.0	13.2	±8.0
	Gran%	%	30.2	±9.0	62.1	±8.0	81.8	±8.0
	Mid%	%	10.4	±10.0	8.3	±6.0	5.0	±5.0
	Lym#	$\times10^9$/L	1.23	±0.30	2.36	±0.70	2.86	±2.00
	Gran#	$\times10^9$/L	0.62	±0.30	4.96	±0.70	17.69	±2.00
	Mid#	$\times10^9$/L	0.21	±0.20	0.66	±0.50	1.08	±0.80
	RBC	$\times10^{12}$/L	**2.30**	±0.24	**4.68**	±0.24	**5.91**	±0.50
	HGB	g/L	**59**	±6	**138**	±6	**190**	±8
	HCT	%	20.0	±2.0	43.7	±3.0	58.6	±4.0
	MCV	fL	**87.1**	±5.0	**93.4**	±5.0	**99.2**	±5.0
	MCH	pg	25.7	±2.5	29.5	±2.5	32.1	±2.5
	MCHC	g/L	295	±30	316	±30	324	±30
	RDW-CV	%	16.2	±3.0	14.6	±3.0	14.2	±3.0
	RDW-SD	fL	57.6	±8.0	57.8	±8.0	59.4	±8.0
	PLT	$\times10^9$/L	**67**	±20	**257**	±40	**545**	±60
	MPV	fL	9.1	±3.0	9.5	±3.0	9.4	±3.0
	PDW	fL	12.7	±3.0	14.2	±3.0	13.6	±3.0
	PCT	%	0.061	±0.061	0.244	±0.200	0.512	±0.200
	P-LCR	%	28.4	±10.0	32.3	±10.0	30.8	±10.0
	P-LCC	$\times10^9$/L	19	±15	83	±25	168	±30

【NOTE】

1. The controls should be stored in refrigerator (2℃~8℃). After opening, it will keep stable for 14 days when it is stored airtight at 2℃~8℃.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15℃~30℃).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.

Low Normal High

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH31 Vet DH36 Vet (Technical File Version A5.0 or higher)	**WBC**	$\times10^9$/L	**1.83**	±0.60	**7.21**	±1.00	**19.23**	±2.50
	Lym%	%	57.0	±9.0	30.6	±8.0	12.8	±8.0
	Gran%	%	29.3	±9.0	61.7	±8.0	82.2	±8.0
	Mid%	%	13.7	±10.0	7.7	±6.0	5.0	±5.0
	Lym#	$\times10^9$/L	1.04	±0.30	2.20	±0.70	2.46	±2.00
	Gran#	$\times10^9$/L	0.54	±0.30	4.45	±0.70	15.81	±2.00
	Mid#	$\times10^9$/L	0.25	±0.20	0.56	±0.50	0.96	±0.80
	RBC	$\times10^{12}$/L	**2.14**	±0.24	**4.26**	±0.24	**5.28**	±0.50
	HGB	g/L	**54**	±6	**126**	±6	**173**	±8
	HCT	%	18.3	±2.0	39.8	±3.0	52.7	±4.0
	MCV	fL	**85.3**	±5.0	**93.5**	±5.0	**99.9**	±5.0
	MCH	pg	25.2	±2.5	29.6	±2.5	32.8	±2.5
	MCHC	g/L	295	±30	317	±30	328	±30
	RDW-CV	%	16.7	±3.0	15.1	±3.0	14.8	±3.0
	RDW-SD	fL	56.4	±8.0	56.2	±8.0	57.3	±8.0
	PLT	$\times10^9$/L	**66**	±20	**247**	±40	**519**	±60
	MPV	fL	10.0	±3.0	10.4	±3.0	10.0	±3.0
	PDW	fL	9.9	±3.0	10.3	±3.0	9.8	±3.0
	PCT	%	0.066	±0.066	0.256	±0.200	0.517	±0.200

【NOTE】

1. The controls should be stored in refrigerator (2℃~8℃). After opening, it will keep stable for 14 days when it is stored airtight at 2℃~8℃.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15℃~30℃).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.

Low Normal High

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH36X (Technical File Version A1.0 or higher)	**WBC**	$\times10^9$/L	**1.92**	±0.60	**7.60**	±1.00	**20.25**	±2.50
	Lym%	%	68.1	±9.0	35.9	±8.0	17.4	±8.0
	Gran%	%	28.8	±9.0	60.2	±8.0	78.6	±8.0
	Mid%	%	3.1	±3.1	3.9	±3.9	4.0	±4.0
	Lym#	$\times10^9$/L	1.31	±0.30	2.72	±0.70	3.52	±2.00
	Gran#	$\times10^9$/L	0.55	±0.30	4.58	±0.70	15.92	±2.00
	Mid#	$\times10^9$/L	0.06	±0.06	0.30	±0.30	0.81	±0.70
	RBC	$\times10^{12}$/L	**2.26**	±0.24	**4.48**	±0.24	**5.51**	±0.50
	HGB	g/L	**57**	±6	**131**	±6	**179**	±8
	HCT	%	18.5	±2.0	40.5	±3.0	53.3	±4.0
	MCV	fL	**81.9**	±5.0	**90.5**	±5.0	**96.8**	±5.0
	MCH	pg	25.2	±2.5	29.2	±2.5	32.5	±2.5
	MCHC	g/L	308	±30	323	±30	336	±30
	RDW-CV	%	17.8	±3.0	16.1	±3.0	15.7	±3.0
	RDW-SD	fL	53.9	±8.0	53.6	±8.0	55.1	±8.0
	PLT	$\times10^9$/L	**68**	±20	**255**	±40	**521**	±60
	MPV	fL	8.3	±3.0	8.8	±3.0	8.5	±3.0
	PDW	fL	11.0	±3.0	11.4	±3.0	10.6	±3.0
	PCT	%	0.056	±0.056	0.224	±0.200	0.443	±0.200
	P-LCR	%	22.1	±10.0	21.6	±10.0	19.8	±10.0
	P-LCC	$\times10^9$/L	15	±15	55	±25	103	±30

【NOTE】

1. The controls should be stored in refrigerator (2℃~8℃). After opening, it will keep stable for 14 days when it is stored airtight at 2℃~8℃.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15℃~30℃).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DP-H10 DP-H12 DP-H13 DP-H15 DP-H16 DP-H17 (Technical File Version A3.3 or higher)	**WBC**	$\times10^9$/L	**2.18**	±0.80	**7.88**	±1.50	**20.93**	±3.50
	Lym%	%	64.9	±10.0	33.1	±8.0	15.1	±8.0
	Gran%	%	29.8	±12.0	62.7	±8.0	80.8	±8.0
	Mid%	%	5.3	±5.3	4.2	±4.2	4.1	±4.0
	Lym#	$\times10^9$/L	1.41	±0.60	2.61	±1.00	3.16	±2.00
	Gran#	$\times10^9$/L	0.65	±0.50	4.94	±1.80	16.91	±5.00
	Mid#	$\times10^9$/L	0.12	±0.12	0.33	±0.33	0.86	±0.80
	RBC	$\times10^{12}$/L	**2.12**	±0.30	**4.31**	±0.60	**5.49**	±0.80
	HGB	g/L	**58**	±8	**136**	±12	**189**	±12
	HCT	%	16.2	±3.0	36.3	±5.0	48.4	±8.0
	MCV	fL	**76.6**	±12.0	**84.3**	±8.0	**88.2**	±10.0
	MCH	pg	27.4	±6.0	31.6	±6.0	34.4	±6.0
	MCHC	g/L	358	±70	375	±70	390	±70
	RDW-CV	%	17.0	±3.0	15.7	±5.0	15.6	±5.0
	RDW-SD	fL	50.8	±8.0	51.6	±12.0	53.2	±19.0
	PLT	$\times10^9$/L	**70**	±40	**295**	±80	**583**	±110
	MPV	fL	8.9	±4.0	9.1	±3.0	8.7	±3.0
	PDW	fL	13.3	±9.0	12.6	±3.0	11.6	±3.0
	PCT	%	0.062	±0.062	0.268	±0.268	0.496	±0.400
	P-LCR	%	26.0	±15.0	26.3	±15.0	24.2	±15.0
	P-LCC	$\times10^9$/L	18	±18	78	±30	137	±40

【NOTE】

1. The controls should be stored in refrigerator (2℃~8℃). After opening, it will keep stable for 14 days when it is stored airtight at 2℃~8℃.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15℃~30℃).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.

Low

Normal

High

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Reference Values provided by DYMIND

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DP-H10 Vet (Technical File Version A1.0 or higher)	**WBC**	$\times10^9$/L	**1.83**	±0.80	**7.21**	±2.00	**19.23**	±4.50
	Lym%	%	57.0	±10.0	30.6	±8.0	12.8	±8.0
	Gran%	%	29.3	±12.0	61.7	±8.0	82.2	±8.0
	Mid%	%	13.7	±10.0	7.7	±5.0	5.0	±4.0
	Lym#	$\times10^9$/L	1.04	±0.60	2.20	±1.00	2.46	±2.00
	Gran#	$\times10^9$/L	0.54	±0.50	4.45	±1.80	15.81	±5.00
	Mid#	$\times10^9$/L	0.25	±0.25	0.56	±0.50	0.96	±0.80
	RBC	$\times10^{12}$/L	**2.14**	±0.50	**4.26**	±1.20	**5.28**	±1.20
	HGB	g/L	**64**	±15	**136**	±30	**183**	±40
	HCT	%	18.3	±5.0	39.8	±10.0	51.7	±15.0
	MCV	fL	**85.3**	±12.0	**92.5**	±8.0	**96.9**	±8.0
	MCH	pg	29.9	±3.0	31.9	±3.0	34.7	±3.0
	MCHC	g/L	350	±45	342	±45	354	±45
	RDW-CV	%	15.6	±3.0	14.6	±3.0	13.8	±3.0
	RDW-SD	fL	37.0	±8.0	37.7	±8.0	37.6	±8.0
	PLT	$\times10^9$/L	**76**	±40	**239**	±80	**435**	±120
	MPV	fL	9.8	±4.0	9.0	±3.0	8.5	±3.0
	PDW	fL	10.9	±9.0	8.7	±3.0	8.3	±3.0
	PCT	%	0.074	±0.074	0.214	±0.214	0.371	±0.371

【NOTE】

1. The controls should be stored in refrigerator (2℃~8℃). After opening, it will keep stable for 14 days when it is stored airtight at 2℃~8℃.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15℃~30℃).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.

Low Normal High

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DP-H20series DP-H21series DP-H22series DP-H23series DP-H24series DP-H25series DP-H26series DP-H27series DP-H28series DP-H29series (Technical File Version A1.0 or higher)	**WBC**	$\times10^9$/L	**2.20**	±0.80	**7.99**	±1.20	**21.50**	±3.00
	Lym%	%	53.1	±10.0	27.1	±8.0	12.3	±8.0
	Gran%	%	35.8	±12.0	63.7	±8.0	80.5	±8.0
	Mid%	%	11.1	±10.0	9.2	±5.0	7.2	±4.0
	Lym#	$\times10^9$/L	1.17	±0.60	2.16	±1.00	2.64	±2.00
	Gran#	$\times10^9$/L	0.79	±0.50	5.09	±1.80	17.31	±5.00
	Mid#	$\times10^9$/L	0.24	±0.24	0.74	±0.50	1.55	±0.50
	RBC	$\times10^{12}$/L	**2.43**	±0.50	**4.91**	±1.20	**6.14**	±1.20
	HGB	g/L	**60**	±8	**140**	±10	**194**	±10
	HCT	%	18.3	±3.0	41.9	±5.0	56.2	±7.0
	MCV	fL	**75.3**	±12.0	**85.4**	±8.0	**91.6**	±8.0
	MCH	pg	24.7	±6.0	28.5	±3.5	31.6	±3.5
	MCHC	g/L	328	±70	334	±70	345	±70
	RDW-CV	%	18.4	±3.0	17.2	±3.0	17.0	±3.0
	RDW-SD	fL	53.8	±8.0	56.0	±8.0	58.2	±8.0
	PLT	$\times10^9$/L	**81**	±40	**276**	±60	**481**	±80
	MPV	fL	10.0	±4.0	9.2	±3.0	9.2	±3.0
	PDW	fL	12.6	±9.0	11.7	±3.0	11.8	±3.0
	PCT	%	0.082	±0.082	0.250	±0.250	0.442	±0.400
	P-LCR	%	25.6	±15.0	22.4	±15.0	21.7	±15.0
	P-LCC	$\times10^9$/L	21	±20	60	±30	105	±40

【NOTE】

1. The controls should be stored in refrigerator (2℃~8℃). After opening, it will keep stable for 14 days when it is stored airtight at 2℃~8℃.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15℃~30℃).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.