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Dym-o-trol/CBC-DH

CE

DIMDI Reg.-Nr.: DE/CA22/1115-14-IVD

EINLEITUNG

Dym-o-trol ist ein Kontrollblut zur täglichen Überprüfung der Präzision und Genauigkeit der Dymind und Edan 5-fach-Diff-Geräte Systeme.

ZUSAMMENSETZUNG

Der fortschrittlichen Hämatologie-Analysatoren von Dymind und Edan liefern umfassende Informationen über Zellkonzentrationen, -volumina und Färbeeigenschaften. Ein Kontrollblut für diese Systeme müssen geeignete Zellarten beinhalten, um eine Qualitätskontrolle für alle Parameter zu ermöglichen.

PRINZIPIEN

Die Verwendung von stabilisierten Zellpräparationen zur Kontrolle hämatologischer Geräte ist eine etablierte Methode. Werden diese wie Patientenblut gehandhabt, und an einem gut kalibrierten Gerät gemessen, findet man für **Dym-o-trol** Werte innerhalb des Zielbereiches.

BESTANDTEILE

Dym-o-trol beinhaltet humane Erythrozyten, Säugetierleukozyten und Säugetierthrombozyten in einem plasmaähnlichen konservierenden Medium.

HINWEISE AUF FEHLERHAFTES KONTROLLBLUT

Bei Verwendung von fehlerhaftem oder verfallenem Kontrollblut können die Zielwerte nicht erreicht werden. Liegen Kontrollwerte ständig außerhalb des Zielbereiches, gehen Sie folgendermaßen vor:

1. Überprüfen Sie, ob das benutzte Gerät einwandfrei arbeitet und die Kontrollmessungen entsprechend der Bedienungsanleitung vorgenommen wurden.
2. Überprüfen Sie das Verfallsdatum, verfallendes **Dym-o-trol** ist nicht verwendbar.
3. Analysieren Sie ein ungeöffnetes Fläschchen **Dym-o-trol .** Liegen die Werte noch immer außerhalb des Zielbereiches, wenden Sie sich an Ihren zuständigen Kundenservice.

ARBEITSWEISEN

1. AUTOMATISCHE METHODEN: Verfahren Sie entsprechend der Bedienungsanleitung Ihres Meßgerätes zur Analyse des Kontrollmaterials.
2. MANUELLE METHODEN: **Dym-o-trol** kann für die Ermittlung von Referenzmetodenwerten verwendet werden. Beachten Sie entsprechende Arbeitsvorschriften.

ANWENDUNG

1. Nehmen Sie ein Fläschchen **Dym-o-trol** aus dem Kühlschrank, und lassen Sie es vor Gebrauch 15 Minuten bei Raumtemperatur (18 – 30°C) stehen.
2. Mischen Sie mehrfach durch vorsichtiges Überkopfschwenken bis der Bodensatz vollständig resuspendiert ist. Nicht schütteln, keinen mechanischen Mixer verwenden.
3. Wischen Sie die Ränder des Fläschchens und des Schraubverschlusses mit einem fusselfreien Tuch ab, bevor Sie es wieder verschließen. Achten Sie darauf, daß das Fläschchen dicht geschlossen ist.
4. Dym-o-trol muss aufrecht bei 2 – 8° C vor und nach Öffnung gelagert werden. **Dym-o-trol** ist ungeöffnet bei der angegebenen Lagertemperatur bis zum angegebenen Datum verwendbar. Nach dem Öffnen der Flasche ist dieses 14 Tage.

WARNUNG

1. Nur für in-vitro Diagnosezwecke einsetzen.
2. Das zur Herstellung dieses Produktes verwendete Humanblut zeigte keine Reaktion auf Hepatitis-B-Antigen, Hepatitis-C-Virus (HCV) und HIV bei Verwendung der durch die FDA spezifizierten Tests. Dennoch sollte es wie Humanblut behandelt werden.
3. Dym-o-trol -Abfälle sind nach den geltenden örtlichen Bestimmungen zu entsorgen.
4. Dym-o-trol ist gebrauchsfertig, es sollte weder verdünnt noch sollten weitere Substanzen hinzugefügt werden.
5. ***Kontrollblut nicht zur Kalibration verwenden***.

ANGEGEBENE WERTE

Die auf dem Datenblatt abgegebenen Zielwerte von **Dym-o-trol** wurden durch mehrfache Analysen an mit Vollblut kalibrierten Geräten mittels Referenzmethoden bestimmt. Es wurden hierzu Vollblutproben gesunder Patienten in EDTA-Anticoagulant innerhalb 6 Stunden nach Entnahme analysiert. Die Zielwerte sind ausschließlich für die Gerätekontrolle und nicht zur Kalibration zu verwenden. Nach Erhalt einer neuen Kontrollcharge sollten für jeden Parameter individuelle Zielwerte und Zielbereiche festgelegt werden. Die dabei bestimmten Mittelwerte müssen innerhalb der auf dem Datenblatt aufgeführten Zielbereiche liegen. Diese repräsentieren mögliche Abweichungen zwischen Laboratorien, die unterschiedliche Arbeitsweisen und unterschiedliche Gerätekalibratoren aufweisen. Zur Bestimmung der eigenen Zielwerte und Zielbereiche für ein Gerät, welches nicht aufgeführt ist, sollten mindestens zehn vergleichbare Werte eines jeden Levels an einem richtig kalibrierten Gerät bestimmt werden.

GRENZEN

Eine mikroskopische Differenzierung der Leukozyten kann nicht mit **Dym-o-trol** vorgenommen werden. Die Leukozytenkomponente ist säugetierischen Ursprungs und simuliert Leukozyten in der Größe, jedoch nicht in der Morphologie.

QUALITÄTSKONTROLLPROGRAMM

Die **Günter Keul GmbH** bietet *QCP* ein externes Qualitätssicherungsprogramm für alle Dauerauftragskunden kostenlos an. Sollten Sie hierüber nähere Informationen wünschen bzw. teilnehmen wollen, rufen Sie bitte die **Günter Keul GmbH** unter 02551 / 2097 an.

REFERENZEN

1. Davidson, I., Henry, J. Clinical Diagnostics, W. B. Sauders Co. Phiadelphia, 15th ed. 125-130, 1974.

GESCHÄFTSBEDINGUNGEN

Es gelten die allgemeinen Geschäftsbedingungen der **Günter Keul GmbH**, Von-Langen-Weg 10, 48565 Steinfurt.

BESTELLINFORMFATIONEN

Bitte rufen Sie den Kundenservice der **Günter Keul GmbH** unter 02551 / 2097 an.

Aktuelle Werteblätter zu den Chargen von Dym-o-trol finden Sie im Internet unter

www.werteblatt.de

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INTENDED USE

Dym-o-trol is an assayed whole blood control designed to monitor values on multi parameter hematology cell counters. Please refer to the assay table for specific instrument models.

SUMMARY AND PRINCIPLE

It is an established laboratory practice to use a stable control to monitor the performance of diagnostic tests. This control is composed of stable materials that provide a means of monitoring the performance of hematology blood cell counters. It is sampled in the same manner as a patient specimen.

REAGENTS

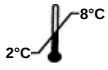
Dym-o-trol is an *in vitro* diagnostic reagent composed of human erythrocytes and mammalian leukocytes and platelets suspended in a plasma-like fluid with preservatives.

PRECAUTION

Dym-o-trol is intended for ***in vitro*** **diagnostic use** only by trained personnel.

WARNING:

POTENTIAL BIOHAZARDOUS MATERIAL. For *in vitro* diagnostic use. Each human donor/unit used in the preparation of this product has been tested and yielded non-reactive / negative results for all conditions referenced in 21 CFR 610.40 (a) (b), as required by the FDA. Testing was conducted using FDA-licensed tests.
No test method can offer complete assurance that infectious agents are absent; therefore, this material should be handled as potentially infectious. When handling or disposing of vials follow precautions for patient specimens as specified in the OSHA Bloodborne Pathogen Rule (29 CFR Part 1910, 1030) or other equivalent biosafety procedures.



STABILITY AND STORAGE

Store Dym-o-trol upright at 2° - 8° C (35° - 46° F) when not in use. **Protect tubes from overheating and freezing.** Unopened tubes are stable through the expiration date. Opened tubes are stable for 14 days, provided they are handled properly.

INDICATIONS OF DETERIORATION

After mixing, product should be similar in appearance to fresh whole blood. In unmixed tubes, the supernatant may appear cloudy and reddish; this is normal and does not indicate deterioration. Other discoloration, very dark red supernatant or unacceptable results may indicate deterioration. **Do not use the product if deterioration is suspected.**

INSTRUCTIONS FOR USE

1. Remove tubes from the refrigerator and allow to warm to room temperature (15 to 30°C or 59 to 86°F) for 15 minutes before mixing.
2. To mix, hold a tube horizontally between the palms of the hands. **Do not pre-mix on a mechanical mixer**.
   a) Roll the tube back and forth for 20 - 30 seconds; occasionally invert the tube. Mix vigorously, but do not shake.
   b) Continue to mix in this manner until the red cells are completely suspended. Tubes stored for a long time may require extra mixing.
   c) Gently invert the tube 8 - 10 times immediately before sampling.
3. Analyze the sample as instructed in the Quality Control section of the Operator's Manual for your instrument.
   After sampling:
   a) If tube has been opened for sampling, clean residual material from the cap and tube rim with a lint-free tissue. Replace the cap tightly.
   b) Return tubes to refrigerator within 30 minutes of use.

EXPECTED RESULTS

Verify that the lot number on the tube matches the lot number on the table of assay values. Assay values are determined on well-maintained, properly calibrated instruments using the instrument manufacturer's recommended reagents. Reagent differences, maintenance, operating technique, and calibration may contribute to inter-laboratory variation.

PERFORMANCE CHARACTERISTICS

Assigned values are presented as a Mean and Range. The Mean is derived from replicate testing on instruments operated and maintained according to the manufacturer's instructions. The Range is an estimate of variation between laboratories and also takes into account inherent imprecision of the method and expected biological variability of the control material.

Assay values on a new lot of control should be confirmed before the new lot is put into routine use. Test the new lot when the instrument is in good working order and quality control results on the old lot are acceptable. The laboratory's recovered mean should be within the assay range.

For greater control sensitivity each laboratory should establish its own mean and acceptable range and periodically reevaluate the mean. The laboratory range may include values outside of the assay range. The user may establish assay values not listed on the Assay Sheet, if the control is suitable for the method.

LIMITATIONS

The performance of this product is assured only if it is properly stored and used as described in this insert. Incomplete mixing of a tube prior to use invalidates both the sample withdrawn and any remaining material in the tube.

TECHNICAL ASSISTANCE AND CUSTOMER SERVICE

For technical assistance or additional information, please call your dealer or local distributor. If there is no, you may call Günter Keul GmbH Technical Service at 49 (0)2551/2097.

QUALITY CONTROL PROGRAM

For information on the Inter-Laboratory Quality Control Program, please call Günter Keul GmbH.

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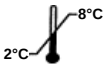
APPLICATION
Le Dym-o-trol est un contrôle titré conçu pour le suivi des performances des analyseurs d'hématologie. Veuillez vous reporter aux tables de valeurs fournies pour les modèles spécifiques d'appareils.

PRINCIPE
L'utilisation d'un contrôle stable pour le suivi des performances des tests diagnostiques est une pratique reconnue. Ce contrôle est constitué de composants stables qui permettent le suivi des performances des compteurs de cellules sanguines pour l'hématologie. Il doit être utilisé de la même façon qu'un échantillon de sang de patient.

COMPOSITION
Le Dym-o-trol est un contrôle pour le diagnostic *in vitro* composé de globules rouges humains, de leucocytes et de plaquettes de mammifères en suspension dans un liquide équivalent au plasma contenant des agents conservateurs.

PRECAUTION
Le Dym-o-trol est conçu pour être utilisé exclusivement pour le **diagnostic *in vitro*** par du personnel expérimenté.

ATTENTION :
RISQUE BIOLOGIQUE POTENTIEL Pour usage *in vitro* seulement.
Ce produit renferme des composants provenant de source humaine et/ou potentiellement infectieux. Ce produit a été testé, et a donné des résultats non réactifs / négatifs pour toutes les conditions mentionnées dans le 21 CFR 610,40 (a) (b), tel que l'exige la FDA. Les tests effectués ont tous été approuvés par la FDA.
Aucune méthode connue ne peut offrir une assurance totale que les produits issus de source humaine ou contenant des microorganismes inactivés ne puissent transmettre des infections.
Aussi, pour l'utilisation et les manipulations de ce produit, veuillez respecter les mêmes précautions que pour un échantillon de sang de patient tel que spécifié dans le OSHA Bloodborne Pathogene Rule (OSHA 29 CFR Part 1910.1030) ou toute autre procédure de sécurité sanitaire équivalente.



STABILITE ET CONSERVATION
Avant ouverture et entre les utilisations, conserver le Dym-o-trol en position verticale à une température de 2 - 8° C (35 - 46° F). **Veiller à ne pas exposer les échantillons à des températures trop élevées ou à la congélation.** Avant ouverture, les échantillons sont stables jusqu'à la date d'expiration. Après ouverture ou premier perçage, les échantillons correctement manipulés sont stables 14 jours.

INDICATIONS DE DETERIORATION
Après agitation, l'aspect du produit doit être identique à celui d'un sang frais total. Avant agitation, le liquide surnageant peut apparaître trouble et rougeâtre ; ceci est normal et n'indique pas une détérioration. Une autre coloration, un surnageant rouge-brun ou des résultats inacceptables peuvent indiquer que le produit est endommagé. **Ne pas utiliser le produit si une détérioration est suspectée.**

MODE D'EMPLOI
1. Sortir le produit du réfrigérateur et le laisser revenir à température ambiante (15 - 30°C ou 59 - 86°F) pendant 15 minutes avant d'agiter.
2. Pour agiter, tenir le tube horizontalement entre les paumes des mains. **Ne pas utiliser d'agitateur mécanique.**
   a) Rouler le tube d'avant en arrière pendant 20 - 30 secondes; inverser le tube de temps en temps. Agiter vigoureusement mais ne pas secouer.
   b) Continuer à agiter de cette façon jusqu'à ce que les globules rouges soient totalement remis en suspension. Les tubes ayant été stockés pendant une longue période peuvent nécessiter une plus longue agitation.
   c) Inverser doucement le tube 8 - 10 fois immédiatement avant chaque analyse.
3. Analyser l'échantillon selon les instructions du chapitre Contrôle de Qualité du manuel opérateur de votre appareil.
   Après analyse :
   a) Si le tube a été ouvert pour l'analyse, essuyer les résidus de produit à l'intérieur du bouchon et sur l'embouchure du tube avec un tissu non pelucheux. Revisser le bouchon à fond.
   b) Remettre les tubes au réfrigérateur dans les 30 minutes suivant l'utilisation.

RESULTATS ATTENDUS
Vérifier que le numéro de lot figurant sur le tube correspond à celui mentionné sur les tables de valeurs. Les valeurs cibles sont établies à partir d'appareils correctement calibrés et régulièrement entretenus utilisant les réactifs recommandés par le fabricant. Des différences de réactifs, de maintenance, de technique opératoire et de calibration peuvent contribuer à des variations inter laboratoires.

PERFORMANCE
Les valeurs attendues sont présentées sous la forme d'une valeur cible moyenne et d'un écart de variation. La valeur cible moyenne est obtenue à partir de tests dupliqués sur des appareils utilisés et maintenus selon les recommandations du fabricant. L'écart de variation est une estimation des variations inter laboratoires et prend également en compte les imprécisions inhérentes à la méthode et aux variations biologiques attendues pour ce produit de contrôle.

Il est nécessaire de valider les valeurs cibles d'un nouveau lot de contrôle avant d'utiliser celui-ci de façon régulière. S'assurer que l'appareil est en bon état de fonctionnement et que les résultats obtenus avec l'ancien lot de contrôle sont acceptables avant de tester le nouveau lot. Les moyennes obtenues par le laboratoire doivent se situer à l'intérieur de la plage de tolérance.

Pour obtenir une plus grande précision du contrôle, chaque laboratoire devra établir ses propres valeurs cibles et écarts de variation et réévaluer la valeur moyenne périodiquement. La plage de tolérance du laboratoire peut inclure des valeurs extérieures aux tolérances de la table de valeurs fournie. L'utilisateur peut établir des valeurs ne figurant pas sur la liste fournie si le contrôle convient à la méthode.

LIMITES D'UTILISATION
Les performances de ce produit ne sont garanties que pour des conditions de conservation et d'utilisation appropriées telles que décrites dans cette notice. Une agitation incomplète d'un tube avant son utilisation invaliderait non seulement l'échantillon aspiré mais aussi le reliquat de produit dans le tube.

ASSISTANCE TECHNIQUE
Pour toute assistance technique ou complément d'information, veuillez contacter votre fournisseur ou le distributeur de votre pays. A défaut, vous pouvez contacter le Service Technique Günter Keul GmbH au 49 (0)2551/2097

PROGRAMME DE CONTRÔLE DE QUALITE
Pour toute information concernant le Programme de Contrôle de Qualité Inter Laboratoires, veuillez contacter le Service.

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CE IVD

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

2024-07-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND D1-CRP D3-CRP D5-CRP DH51CRP DH53CRP DH56CRP (Technical File Version A9.0 to A11.9)	**WBC**	$\times10^9$/L	**3.42**	±0.50	**8.09**	±1.00	**18.60**	±2.50
	Neu%	%	49.2	±9.0	56.9	±8.0	66.2	±7.0
	Lym%	%	39.4	±9.0	29.9	±8.0	20.6	±6.0
	Mon%	%	7.9	±4.0	7.6	±5.0	6.6	±6.0
	Eos%	%	3.5	±3.5	5.6	±5.6	6.6	±6.6
	Bas%	%	62.5	±8.0	71.6	±8.0	80.9	±8.0
	Neu#	$\times10^9$/L	1.68	±0.40	4.61	±0.70	12.31	±1.40
	Lym#	$\times10^9$/L	1.35	±0.40	2.42	±0.70	3.83	±1.10
	Mon#	$\times10^9$/L	0.27	±0.14	0.62	±0.50	1.23	±1.10
	Eos#	$\times10^9$/L	0.12	±0.12	0.45	±0.45	1.23	±1.23
	Bas#	$\times10^9$/L	2.14	±0.30	5.80	±0.70	15.04	±1.50
	RBC	$\times10^{12}$/L	**2.20**	±0.18	**4.46**	±0.24	**5.24**	±0.50
	HGB	g/L	**58**	±4	**132**	±6	**167**	±8
	HCT	%	18.7	±2.0	42.3	±3.0	53.0	±4.0
	MCV	fL	**84.9**	±5.0	**94.7**	±5.0	**101.2**	±6.0
	MCH	pg	26.1	±2.5	29.5	±2.5	31.8	±2.5
	MCHC	g/L	315	±30	318	±30	322	±30
	RDW-CV	%	17.8	±3.0	16.3	±3.0	16.1	±3.0
	RDW-SD	fL	52.5	±10.0	53.2	±10.0	55.9	±12.0
	PLT	$\times10^9$/L	**40**	±20	**265**	±40	**580**	±60
	MPV	fL	10.0	±3.0	9.7	±3.0	9.4	±3.0
	PDW	fL	10.1	±3.0	11.7	±3.0	11.2	±3.0
	PCT	%	0.040	±0.040	0.257	±0.100	0.546	±0.200
	P-LCR	%	24.2	±8.0	24.8	±8.0	22.8	±8.0
	P-LCC	$\times10^9$/L	11	±11	66	±25	129	±35
	PDW	/	10.0	±3.0	10.0	±3.0	10.0	±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.

CBC-DH

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LOT DH2405

2024-04-07

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND D1-CRP D3-CRP D5-CRP DH51CRP DH53CRP DH56CRP (Technical File Version A11.11 or higher)	**WBC**	$\times10^9$/L	**3.65**	±0.50	**8.94**	±1.00	**20.47**	±2.50
	Neu%	%	49.0	±9.0	56.2	±8.0	65.4	±7.0
	Lym%	%	38.8	±9.0	30.1	±8.0	20.6	±6.0
	Mon%	%	8.1	±4.0	7.8	±5.0	6.8	±6.0
	Eos%	%	4.1	±4.1	5.9	±5.9	7.2	±7.0
	Bas%	%	62.8	±8.0	72.1	±8.0	81.3	±8.0
	Neu#	$\times10^9$/L	1.79	±0.40	5.03	±0.70	13.38	±1.40
	Lym#	$\times10^9$/L	1.42	±0.40	2.69	±0.70	4.22	±1.10
	Mon#	$\times10^9$/L	0.30	±0.14	0.70	±0.50	1.39	±1.10
	Eos#	$\times10^9$/L	0.15	±0.15	0.53	±0.50	1.47	±1.30
	Bas#	$\times10^9$/L	2.29	±0.30	6.45	±0.70	16.64	±1.50
	RBC	$\times10^{12}$/L	**2.23**	±0.18	**4.54**	±0.24	**5.36**	±0.50
	HGB	g/L	**57**	±4	**132**	±6	**168**	±8
	HCT	%	18.2	±2.0	40.9	±3.0	51.7	±4.0
	MCV	fL	**81.6**	±5.0	**90.0**	±5.0	**96.4**	±6.0
	MCH	pg	25.6	±2.5	29.1	±2.5	31.4	±2.5
	MCHC	g/L	320	±30	329	±30	332	±30
	RDW-CV	%	17.4	±3.0	15.8	±3.0	15.6	±3.0
	RDW-SD	fL	51.1	±10.0	51.4	±10.0	53.8	±12.0
	PLT	$\times10^9$/L	**44**	±20	**256**	±40	**568**	±60
	MPV	fL	9.8	±3.0	9.5	±3.0	9.2	±3.0
	PDW	fL	9.7	±3.0	11.1	±3.0	10.7	±3.0
	PCT	%	0.043	±0.043	0.243	±0.100	0.522	±0.200
	P-LCR	%	22.3	±8.0	23.6	±8.0	21.5	±8.0
	P-LCC	$\times10^9$/L	10	±10	63	±25	121	±35

【NOTE】

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2024-04-07

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND UN71 UN73 UN76 DH73 Technical File Version A5.5 to A6.2)	**WBC**	$\times10^9$/L	**3.50**	±0.50	**8.26**	±1.00	**18.43**	±2.50
	Neu%	%	48.9	±9.0	56.2	±8.0	66.6	±7.0
	Lym%	%	39.3	±9.0	30.8	±8.0	20.9	±6.0
	Mon%	%	7.9	±4.0	7.3	±5.0	6.5	±6.0
	Eos%	%	3.1	±3.1	4.8	±4.8	5.3	±5.3
	Bas%	%	0.8	±0.8	0.9	±0.9	0.7	±0.7
	Neu#	$\times10^9$/L	1.71	±0.40	4.64	±0.70	12.28	±1.40
	Lym#	$\times10^9$/L	1.38	±0.40	2.54	±0.70	3.85	±1.10
	Mon#	$\times10^9$/L	0.28	±0.14	0.60	±0.50	1.20	±1.10
	Eos#	$\times10^9$/L	0.11	±0.11	0.40	±0.40	0.98	±0.98
	Bas#	$\times10^9$/L	0.03	±0.03	0.07	±0.07	0.13	±0.13
	RBC	$\times10^{12}$/L	**2.21**	±0.18	**4.50**	±0.24	**5.21**	±0.50
	HGB	g/L	**58**	±4	**134**	±6	**169**	±8
	HCT	%	18.2	±2.0	41.2	±3.0	51.1	±4.0
	MCV	fL	**82.4**	±5.0	**91.5**	±5.0	**98.0**	±6.0
	MCH	pg	26.0	±2.5	29.4	±2.5	32.1	±2.5
	MCHC	g/L	321	±30	326	±30	333	±30
	RDW-CV	%	18.1	±3.0	16.7	±3.0	16.5	±3.0
	RDW-SD	fL	55.1	±10.0	56.2	±10.0	59.1	±12.0
	PLT	$\times10^9$/L	**51**	±20	**257**	±40	**540**	±60
	MPV	fL	9.2	±3.0	9.5	±3.0	9.3	±3.0
	PDW	fL	11.1	±3.0	11.1	±3.0	10.9	±3.0
	PCT	%	0.047	±0.047	0.245	±0.100	0.502	±0.200
	P-LCR	%	22.8	±8.0	23.6	±8.0	22.3	±8.0
	P-LCC	$\times10^9$/L	12	±12	61	±25	117	±35

【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.

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND UN71 UN73 UN76 DH73 (Technical File Version A6.3 or higher)	**WBC**	$\times10^9$/L	**3.50**	±0.50	**8.28**	±1.00	**18.89**	±2.50
	Neu%	%	49.2	±9.0	56.1	±8.0	65.1	±7.0
	Lym%	%	39.6	±9.0	31.1	±8.0	21.3	±6.0
	Mon%	%	7.3	±4.0	6.9	±5.0	6.3	±6.0
	Eos%	%	3.1	±3.1	5.0	±5.0	6.4	±6.4
	Bas%	%	0.8	±0.8	0.9	±0.9	0.9	±0.9
	Neu#	$\times10^9$/L	1.72	±0.40	4.65	±0.70	12.29	±1.40
	Lym#	$\times10^9$/L	1.39	±0.40	2.58	±0.70	4.02	±1.10
	Mon#	$\times10^9$/L	0.26	±0.14	0.57	±0.50	1.19	±1.10
	Eos#	$\times10^9$/L	0.11	±0.11	0.41	±0.41	1.21	±1.21
	Bas#	$\times10^9$/L	0.03	±0.03	0.07	±0.07	0.17	±0.17
	RBC	$\times10^{12}$/L	**2.29**	±0.18	**4.61**	±0.24	**5.37**	±0.50
	HGB	g/L	**59**	±4	**135**	±6	**172**	±8
	HCT	%	18.6	±2.0	41.8	±3.0	52.3	±4.0
	MCV	fL	**81.0**	±5.0	**90.8**	±5.0	**97.3**	±6.0
	MCH	pg	25.2	±2.5	28.6	±2.5	31.2	±2.5
	MCHC	g/L	317	±30	321	±30	326	±30
	RDW-CV	%	17.6	±3.0	16.0	±3.0	15.8	±3.0
	RDW-SD	fL	52.7	±10.0	53.1	±10.0	55.7	±12.0
	PLT	$\times10^9$/L	**53**	±20	**261**	±40	**549**	±60
	MPV	fL	9.3	±3.0	9.6	±3.0	9.2	±3.0
	PDW	fL	11.5	±3.0	11.2	±3.0	10.7	±3.0
	PCT	%	0.049	±0.049	0.251	±0.100	0.505	±0.200
	P-LCR	%	23.9	±8.0	23.7	±8.0	22.0	±8.0
	P-LCC	$\times10^9$/L	13	±13	63	±25	118	±35

【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

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH73 Vet (Technical File Version B5.5 or higher)	**RBC**	$\times10^{12}$/L	**2.30**	±0.18	**4.63**	±0.24	**5.46**	±0.50
	HGB	g/L	**59**	±4	**136**	±6	**176**	±8
	HCT	%	19.5	±2.0	44.2	±3.0	55.4	±4.0
	MCV	fL	**84.9**	±5.0	**95.3**	±5.0	**101.5**	±6.0
	MCH	pg	24.8	±2.5	28.6	±2.5	31.2	±2.5
	MCHC	g/L	299	±30	308	±30	314	±30
	RDW-CV	%	17.5	±3.0	16.0	±3.0	15.7	±3.0
	RDW-SD	fL	51.5	±10.0	51.8	±10.0	54.2	±12.0
	PLT	$\times10^{9}$/L	**53**	±20	**263**	±40	**545**	±60
	MPV	fL	9.4	±3.0	9.7	±3.0	9.3	±3.0
	PDW	fL	12.0	±3.0	11.3	±3.0	11.0	±3.0
	PCT	%	0.050	±0.050	0.255	±0.100	0.507	±0.200
	P-LCR	%	24.1	±8.0	24.3	±8.0	22.5	±8.0
	P-LCC	$\times10^{9}$/L	13	±13	66	±25	122	±35

【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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HEMATOLOGY CONTROL

Reference Values provided by DYMIND

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DF50 DF51 DF52 DF53 DF55 DF56 (Technical File Version A10.0 to A11.1) DF50 Vet DF52 Vet (Technical File Version A2.0 to A7.0)	**WBC**	$\times10^9$/L	**3.50**	±0.50	**8.20**	±1.00	**18.62**	±2.50
	Neu%	%	50.0	±9.0	56.6	±8.0	66.0	±7.0
	Lym%	%	39.2	±9.0	29.6	±8.0	20.0	±6.0
	Mon%	%	5.7	±4.0	5.7	±5.0	5.3	±5.3
	Eos%	%	5.1	±5.0	8.1	±6.0	8.7	±7.0
	Bas%	%	2.6	±2.6	2.5	±2.5	3.0	±3.0
	Neu#	$\times10^9$/L	1.75	±0.40	4.64	±0.70	12.29	±1.40
	Lym#	$\times10^9$/L	1.37	±0.40	2.43	±0.70	3.72	±1.10
	Mon#	$\times10^9$/L	0.20	±0.14	0.47	±0.47	0.99	±0.99
	Eos#	$\times10^9$/L	0.18	±0.15	0.66	±0.50	1.62	±1.30
	Bas#	$\times10^9$/L	0.09	±0.09	0.21	±0.21	0.56	±0.56
	RBC	$\times10^{12}$/L	**2.30**	±0.18	**4.64**	±0.24	**5.42**	±0.50
	HGB	g/L	**58**	±4	**134**	±6	**172**	±8
	HCT	%	19.0	±2.0	42.7	±3.0	53.2	±4.0
	MCV	fL	**82.8**	±5.0	**91.9**	±5.0	**98.1**	±6.0
	MCH	pg	25.2	±2.5	28.7	±2.5	31.6	±2.5
	MCHC	g/L	313	±30	321	±30	330	±30
	RDW-CV	%	14.5	±3.0	13.4	±3.0	13.3	±3.0
	RDW-SD	fL	49.3	±10.0	50.1	±10.0	52.7	±12.0
	PLT	$\times10^9$/L	**55**	±20	**268**	±40	**540**	±60
	MPV	fL	9.7	±3.0	9.8	±3.0	9.6	±3.0
	PDW	fL	11.0	±3.0	13.1	±3.0	13.0	±3.0
	PCT	%	0.054	±0.050	0.263	±0.100	0.518	±0.200
	P-LCR	%	31.7	±8.0	35.4	±8.0	33.7	±8.0
	P-LCC	$\times10^9$/L	18	±15	96	±25	179	±35

【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.
5. P-LCC and P-LCR parameters are not applicable to DF50,DF51,DF53, DF50 Vet and DF52 Vet Instruments.

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DF50 DF51 DF52 DF53 DF55 DF56 (Technical File Version A11.2 to A11.6)	**WBC**	$\times10^9$/L	**3.50**	±0.50	**8.20**	±1.00	**18.62**	±2.50
	Neu%	%	50.0	±9.0	56.6	±8.0	66.0	±7.0
	Lym%	%	39.2	±9.0	29.6	±8.0	20.0	±6.0
	Mon%	%	5.7	±4.0	5.7	±5.0	5.3	±5.3
	Eos%	%	5.1	±5.0	8.1	±6.0	8.7	±7.0
	Bas%	%	2.6	±2.6	2.5	±2.5	3.0	±3.0
	Neu#	$\times10^9$/L	1.75	±0.40	4.64	±0.70	12.29	±1.40
	Lym#	$\times10^9$/L	1.37	±0.40	2.43	±0.70	3.72	±1.10
	Mon#	$\times10^9$/L	0.20	±0.14	0.47	±0.47	0.99	±0.99
	Eos#	$\times10^9$/L	0.18	±0.15	0.66	±0.50	1.62	±1.30
	Bas#	$\times10^9$/L	0.09	±0.09	0.21	±0.21	0.56	±0.56
	RBC	$\times10^{12}$/L	**2.30**	±0.18	**4.64**	±0.24	**5.42**	±0.50
	HGB	g/L	**58**	±4	**134**	±6	**172**	±8
	HCT	%	19.0	±2.0	42.7	±3.0	53.2	±4.0
	MCV	fL	**82.8**	±5.0	**91.9**	±5.0	**98.1**	±6.0
	MCH	pg	25.2	±2.5	28.7	±2.5	31.6	±2.5
	MCHC	g/L	313	±30	321	±30	330	±30
	RDW-CV	%	14.5	±3.0	13.4	±3.0	13.3	±3.0
	RDW-SD	fL	49.3	±10.0	50.1	±10.0	52.7	±12.0
	PLT	$\times10^9$/L	**55**	±20	**268**	±40	**540**	±60
	MPV	fL	9.7	±3.0	9.8	±3.0	9.6	±3.0
	PDW	fL	11.0	±3.0	13.1	±3.0	13.0	±3.0
	PCT	%	0.054	±0.050	0.263	±0.100	0.518	±0.200
	P-LCR	%	31.7	±8.0	35.4	±8.0	33.7	±8.0
	P-LCC	$\times10^9$/L	18	±15	96	±25	179	±35

【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.
5. P-LCC and P-LCR parameters are not applicable to DF50,DF51,DF53, DF50 Vet and DF52 Vet Instruments.

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DF50 DF51 DF52 DF53 DF55 DF56 (Technical File Version A12.0 or higher)	**WBC**	$\times10^9$/L	**3.60**	±0.50	**8.41**	±1.00	**18.93**	±2.50
	Neu%	%	50.0	±9.0	55.7	±8.0	65.2	±7.0
	Lym%	%	38.7	±9.0	29.5	±8.0	20.0	±6.0
	Mon%	%	6.3	±4.0	6.7	±5.0	6.0	±6.0
	Eos%	%	5.0	±5.0	8.1	±6.0	8.8	±7.0
	Bas%	%	1.8	±1.8	1.9	±1.9	1.6	±1.6
	Neu#	$\times10^9$/L	1.80	±0.40	4.68	±0.70	12.34	±1.40
	Lym#	$\times10^9$/L	1.39	±0.40	2.48	±0.70	3.79	±1.10
	Mon#	$\times10^9$/L	0.23	±0.14	0.56	±0.50	1.14	±1.10
	Eos#	$\times10^9$/L	0.18	±0.15	0.68	±0.50	1.67	±1.30
	Bas#	$\times10^9$/L	0.06	±0.06	0.16	±0.16	0.30	±0.30
	RBC	$\times10^{12}$/L	**2.30**	±0.18	**4.64**	±0.24	**5.37**	±0.50
	HGB	g/L	**59**	±4	**135**	±6	**173**	±8
	HCT	%	19.0	±2.0	41.7	±3.0	51.5	±4.0
	MCV	fL	**82.5**	±5.0	**89.9**	±5.0	**95.7**	±6.0
	MCH	pg	25.4	±2.5	29.0	±2.5	32.1	±2.5
	MCHC	g/L	314	±30	329	±30	341	±30
	RDW-CV	%	15.1	±3.0	14.1	±3.0	13.8	±3.0
	RDW-SD	fL	52.2	±10.0	53.5	±10.0	56.1	±12.0
	PLT	$\times10^9$/L	**54**	±20	**259**	±40	**523**	±60
	MPV	fL	9.3	±3.0	9.2	±3.0	9.2	±3.0
	PDW	fL	10.7	±3.0	12.4	±3.0	12.2	±3.0
	PCT	%	0.050	±0.050	0.239	±0.100	0.481	±0.200
	P-LCR	%	28.2	±8.0	31.3	±8.0	30.5	±8.0
	P-LCC	$\times10^9$/L	15	±15	81	±25	154	±35

【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.
5. P-LCC and P-LCR parameters are not applicable to DF50,DF51,DF53, DF50 Vet and DF52 Vet Instruments.

Low Normal High

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DF50 DF51 DF52 DF53 DF55 DF56 (Technical File Version B1.0 or higher)	**WBC**	$\times10^9$/L	**3.53**	±0.50	**8.28**	±1.00	**18.66**	±2.50
	Neu%	%	49.7	±9.0	56.6	±8.0	66.1	±7.0
	Lym%	%	38.3	±9.0	29.1	±8.0	19.8	±6.0
	Mon%	%	6.7	±4.0	6.2	±5.0	5.3	±5.3
	Eos%	%	5.3	±5.0	8.1	±6.0	8.8	±7.0
	Bas%	%	2.4	±2.4	2.0	±2.0	1.8	±1.8
	Neu#	$\times10^9$/L	1.75	±0.40	4.68	±0.70	12.33	±1.40
	Lym#	$\times10^9$/L	1.35	±0.40	2.41	±0.70	3.69	±1.10
	Mon#	$\times10^9$/L	0.24	±0.14	0.51	±0.50	0.99	±0.99
	Eos#	$\times10^9$/L	0.19	±0.15	0.67	±0.50	1.64	±1.30
	Bas#	$\times10^9$/L	0.08	±0.08	0.17	±0.17	0.34	±0.34
	RBC	$\times10^{12}$/L	**2.24**	±0.18	**4.52**	±0.24	**5.26**	±0.50
	HGB	g/L	**59**	±4	**136**	±6	**176**	±8
	HCT	%	18.5	±2.0	40.8	±3.0	50.5	±4.0
	MCV	fL	**82.5**	±5.0	**90.1**	±5.0	**96.0**	±6.0
	MCH	pg	26.1	±2.5	30.1	±2.5	33.4	±2.5
	MCHC	g/L	322	±30	340	±30	354	±30
	RDW-CV	%	14.8	±3.0	13.7	±3.0	13.6	±3.0
	RDW-SD	fL	51.0	±10.0	52.0	±10.0	54.8	±12.0
	PLT	$\times10^9$/L	**57**	±20	**271**	±40	**542**	±60
	MPV	fL	9.1	±3.0	9.0	±3.0	8.8	±3.0
	PDW	fL	11.0	±3.0	12.9	±3.0	12.6	±3.0
	PCT	%	0.052	±0.050	0.244	±0.100	0.477	±0.200
	P-LCR	%	26.3	±8.0	29.3	±8.0	28.2	±8.0
	P-LCC	$\times10^9$/L	15	±15	80	±25	148	±35

【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.
5. P-LCC and P-LCR parameters are not applicable to DF50,DF51,DF53, DF50 Vet and DF52 Vet Instruments.

Low Normal High

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH71 DH76 (Technical File Version A4.1to A10.3) DH51 DH53 DH56 (Technical File Version A8.1 or higher)	**WBC**	$\times10^9$/L	**3.52**	±0.50	**8.16**	±1.00	**18.69**	±2.50
	Neu%	%	48.6	±9.0	57.1	±8.0	66.3	±7.0
	Lym%	%	40.1	±9.0	30.2	±8.0	21.0	±6.0
	Mon%	%	7.7	±4.0	7.2	±5.0	6.4	±6.0
	Eos%	%	3.6	±3.6	5.5	±5.5	6.3	±6.3
	Bas%	%	62.0	±8.0	70.9	±8.0	80.3	±8.0
	Neu#	$\times10^9$/L	1.71	±0.40	4.66	±0.70	12.39	±1.40
	Lym#	$\times10^9$/L	1.41	±0.40	2.47	±0.70	3.93	±1.10
	Mon#	$\times10^9$/L	0.27	±0.14	0.59	±0.50	1.20	±1.10
	Eos#	$\times10^9$/L	0.13	±0.13	0.45	±0.45	1.18	±1.18
	Bas#	$\times10^9$/L	2.18	±0.30	5.79	±0.70	15.01	±1.50
	RBC	$\times10^{12}$/L	**2.14**	±0.18	**4.37**	±0.24	**5.28**	±0.50
	HGB	g/L	**58**	±4	**135**	±6	**172**	±8
	HCT	%	17.9	±2.0	40.9	±3.0	52.5	±4.0
	MCV	fL	**83.9**	±5.0	**93.6**	±5.0	**99.6**	±6.0
	MCH	pg	25.3	±2.5	28.8	±2.5	30.5	±2.5
	MCHC	g/L	318	±30	314	±30	313	±30
	RDW-CV	%	17.6	±3.0	16.2	±3.0	16.0	±3.0
	RDW-SD	fL	51.3	±10.0	52.4	±10.0	54.8	±12.0
	PLT	$\times10^9$/L	**48**	±20	**250**	±40	**565**	±60
	MPV	fL	9.6	±3.0	9.9	±3.0	9.6	±3.0
	PDW	fL	10.2	±3.0	10.1	±3.0	10.2	±3.0
	PCT	%	0.046	±0.046	0.248	±0.100	0.542	±0.200
	P-LCR	%	25.0	±8.0	25.3	±8.0	23.9	±8.0
	P-LCC	$\times10^9$/L	13	±13	66	±25	135	±35

【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.

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

2024-07-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH71 DH76 (Technical File Version A10.4)	**WBC**	$\times10^9$/L	**3.25**	±0.50	**7.44**	±1.00	**16.73**	±2.50
	Neu%	%	48.5	±9.0	56.3	±8.0	66.3	±7.0
	Lym%	%	39.5	±9.0	31.4	±8.0	21.0	±6.0
	Mon%	%	8.1	±4.0	7.3	±5.0	6.8	±6.0
	Eos%	%	3.9	±3.9	5.0	±5.0	5.9	±5.9
	Bas%	%	59.8	±8.0	69.9	±8.0	79.6	±8.0
	Neu#	$\times10^9$/L	1.57	±0.40	4.19	±0.70	11.09	±1.40
	Lym#	$\times10^9$/L	1.28	±0.40	2.34	±0.70	3.51	±1.10
	Mon#	$\times10^9$/L	0.26	±0.14	0.54	±0.50	1.14	±1.10
	Eos#	$\times10^9$/L	0.13	±0.13	0.37	±0.37	0.99	±0.99
	Bas#	$\times10^9$/L	1.94	±0.30	5.20	±0.70	13.31	±1.50
	RBC	$\times10^{12}$/L	**2.25**	±0.18	**4.63**	±0.24	**5.47**	±0.50
	HGB	g/L	**57**	±4	**132**	±6	**168**	±8
	HCT	%	18.4	±2.0	41.9	±3.0	52.9	±4.0
	MCV	fL	**81.6**	±5.0	**90.5**	±5.0	**96.9**	±6.0
	MCH	pg	24.7	±2.5	28.0	±2.5	30.2	±2.5
	MCHC	g/L	307	±30	312	±30	314	±30
	RDW-CV	%	17.7	±3.0	16.0	±3.0	15.7	±3.0
	RDW-SD	fL	52.4	±10.0	52.5	±10.0	54.7	±12.0
	PLT	$\times10^9$/L	**46**	±20	**263**	±40	**567**	±60
	MPV	fL	10.1	±3.0	9.6	±3.0	9.3	±3.0
	PDW	fL	10.6	±3.0	11.5	±3.0	11.1	±3.0
	PCT	%	0.047	±0.047	0.253	±0.100	0.527	±0.200
	P-LCR	%	24.7	±8.0	24.1	±8.0	22.7	±8.0
	P-LCC	$\times10^9$/L	12	±12	65	±25	128	±35

【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.

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

2024-07-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DH71 DH76 (Technical File Version A10.5 or higher)	**WBC**	$\times10^9$/L	**3.57**	±0.50	**8.35**	±1.00	**19.21**	±2.50
	Neu%	%	48.5	±9.0	55.6	±8.0	64.8	±7.0
	Lym%	%	39.5	±9.0	30.2	±8.0	20.8	±6.0
	Mon%	%	8.1	±4.0	7.8	±5.0	6.8	±6.0
	Eos%	%	3.9	±3.9	6.4	±6.0	7.6	±7.0
	Bas%	%	63.0	±8.0	72.3	±8.0	82.0	±8.0
	Neu#	$\times10^9$/L	1.73	±0.40	4.64	±0.70	12.45	±1.40
	Lym#	$\times10^9$/L	1.41	±0.40	2.52	±0.70	4.00	±1.10
	Mon#	$\times10^9$/L	0.29	±0.14	0.65	±0.50	1.31	±1.10
	Eos#	$\times10^9$/L	0.14	±0.14	0.53	±0.50	1.46	±1.30
	Bas#	$\times10^9$/L	2.25	±0.30	6.04	±0.70	15.76	±1.50
	RBC	$\times10^{12}$/L	**2.27**	±0.18	**4.60**	±0.24	**5.42**	±0.50
	HGB	g/L	**58**	±4	**135**	±6	**172**	±8
	HCT	%	18.5	±2.0	41.7	±3.0	52.7	±4.0
	MCV	fL	**81.3**	±5.0	**90.6**	±5.0	**97.1**	±6.0
	MCH	pg	25.7	±2.5	29.4	±2.5	31.7	±2.5
	MCHC	g/L	320	±30	328	±30	330	±30
	RDW-CV	%	17.7	±3.0	16.0	±3.0	15.8	±3.0
	RDW-SD	fL	52.1	±10.0	52.3	±10.0	54.8	±12.0
	PLT	$\times10^9$/L	**44**	±20	**263**	±40	**573**	±60
	MPV	fL	9.8	±3.0	9.5	±3.0	9.1	±3.0
	PDW	fL	9.7	±3.0	11.0	±3.0	10.6	±3.0
	PCT	%	0.043	±0.043	0.250	±0.100	0.522	±0.200
	P-LCR	%	23.1	±8.0	23.2	±8.0	21.1	±8.0
	P-LCC	$\times10^9$/L	10	±10	62	±25	118	±35

【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

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

2024-07-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND D2-CRP D7-CRP DH71CRP DH73CRP (Technical File Version A3.0 to A5.11)	**WBC**	$\times10^9$/L	**3.54**	±0.50	**8.19**	±1.00	**18.37**	±2.50
	Neu%	%	49.1	±9.0	77.9	±8.0	66.4	±7.0
	Lym%	%	40.4	±9.0	5.3	±5.3	19.9	±6.0
	Mon%	%	6.1	±4.0	6.0	±5.0	5.4	±5.4
	Eos%	%	4.4	±4.4	10.8	±6.0	8.3	±7.0
	Bas%	%	62.2	±8.0	71.2	±8.0	80.5	±8.0
	Neu#	$\times10^9$/L	1.74	±0.40	6.38	±0.70	12.20	±1.40
	Lym#	$\times10^9$/L	1.43	±0.40	0.43	±0.43	3.66	±1.10
	Mon#	$\times10^9$/L	0.22	±0.14	0.49	±0.49	0.99	±0.99
	Eos#	$\times10^9$/L	0.16	±0.15	0.88	±0.50	1.52	±1.30
	Bas#	$\times10^9$/L	2.20	±0.30	5.83	±0.70	14.79	±1.50
	RBC	$\times10^{12}$/L	**2.24**	±0.18	**4.52**	±0.24	**5.30**	±0.50
	HGB	g/L	**58**	±4	**134**	±6	**170**	±8
	HCT	%	19.2	±2.0	43.3	±3.0	54.1	±4.0
	MCV	fL	**85.6**	±5.0	**95.8**	±5.0	**102.1**	±6.0
	MCH	pg	25.5	±2.5	29.3	±2.5	31.7	±2.5
	MCHC	g/L	305	±30	313	±30	319	±30
	RDW-CV	%	17.7	±3.0	16.0	±3.0	15.9	±3.0
	RDW-SD	fL	52.7	±10.0	52.7	±10.0	55.6	±12.0
	PLT	$\times10^9$/L	**49**	±20	**267**	±40	**575**	±60
	MPV	fL	10.3	±3.0	9.8	±3.0	9.6	±3.0
	PDW	fL	10.7	±3.0	11.8	±3.0	11.6	±3.0
	PCT	%	0.050	±0.050	0.261	±0.100	0.552	±0.200
	P-LCR	%	25.5	±8.0	25.7	±8.0	24.3	±8.0
	P-LCC	$\times10^9$/L	12	±12	69	±25	136	±35
	PDW	/	10.0	±3.0	10.0	±3.0	10.0	±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.

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

2024-07-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND D2-CRP D7-CRP DH71CRP DH73CRP (Technical File Version A6.0 to A 6.5)	**WBC**	$\times10^9$/L	**3.52**	±0.50	**8.32**	±1.00	**18.73**	±2.50
	Neu%	%	48.6	±9.0	57.1	±8.0	65.7	±7.0
	Lym%	%	39.9	±9.0	30.4	±8.0	21.0	±6.0
	Mon%	%	8.0	±4.0	7.5	±5.0	6.8	±6.0
	Eos%	%	3.5	±3.5	5.0	±5.0	6.5	±6.5
	Bas%	%	63.3	±8.0	72.2	±8.0	81.6	±8.0
	Neu#	$\times10^9$/L	1.71	±0.40	4.75	±0.70	12.31	±1.40
	Lym#	$\times10^9$/L	1.41	±0.40	2.53	±0.70	3.93	±1.10
	Mon#	$\times10^9$/L	0.28	±0.14	0.62	±0.50	1.27	±1.10
	Eos#	$\times10^9$/L	0.12	±0.12	0.42	±0.42	1.22	±1.22
	Bas#	$\times10^9$/L	2.23	±0.30	6.00	±0.70	15.29	±1.50
	RBC	$\times10^{12}$/L	**2.20**	±0.18	**4.52**	±0.24	**5.31**	±0.50
	HGB	g/L	**57**	±4	**134**	±6	**170**	±8
	HCT	%	18.2	±2.0	41.3	±3.0	51.7	±4.0
	MCV	fL	**82.8**	±5.0	**91.3**	±5.0	**97.4**	±6.0
	MCH	pg	25.8	±2.5	29.4	±2.5	31.7	±2.5
	MCHC	g/L	316	±30	327	±30	330	±30
	RDW-CV	%	17.9	±3.0	16.3	±3.0	15.9	±3.0
	RDW-SD	fL	52.8	±10.0	53.4	±10.0	55.7	±12.0
	PLT	$\times10^9$/L	**45**	±20	**268**	±40	**589**	±60
	MPV	fL	10.1	±3.0	9.8	±3.0	9.6	±3.0
	PDW	fL	10.0	±3.0	11.8	±3.0	11.5	±3.0
	PCT	%	0.045	±0.045	0.262	±0.100	0.565	±0.200
	P-LCR	%	24.1	±8.0	25.5	±8.0	23.9	±8.0
	P-LCC	$\times10^9$/L	11	±11	69	±25	139	±35

【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

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

2024-07-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND D2-CRP D7-CRP DH71CRP DH73CRP (Technical File Version A6.6 or higher)	**WBC**	$\times10^9$/L	**3.79**	±0.50	**8.83**	±1.00	**19.92**	±2.50
	Neu%	%	49.4	±9.0	56.2	±8.0	65.6	±7.0
	Lym%	%	39.1	±9.0	30.4	±8.0	20.8	±6.0
	Mon%	%	8.0	±4.0	7.6	±5.0	6.7	±6.0
	Eos%	%	3.5	±3.5	5.8	±5.8	6.9	±6.9
	Bas%	%	63.6	±8.0	72.5	±8.0	81.7	±8.0
	Neu#	$\times10^9$/L	1.87	±0.40	4.96	±0.70	13.07	±1.40
	Lym#	$\times10^9$/L	1.48	±0.40	2.68	±0.70	4.14	±1.10
	Mon#	$\times10^9$/L	0.30	±0.14	0.67	±0.50	1.33	±1.10
	Eos#	$\times10^9$/L	0.13	±0.13	0.51	±0.50	1.37	±1.30
	Bas#	$\times10^9$/L	2.41	±0.30	6.40	±0.70	16.28	±1.50
	RBC	$\times10^{12}$/L	**2.25**	±0.18	**4.57**	±0.24	**5.35**	±0.50
	HGB	g/L	**58**	±4	**134**	±6	**170**	±8
	HCT	%	18.3	±2.0	41.2	±3.0	51.6	±4.0
	MCV	fL	**81.3**	±5.0	**90.0**	±5.0	**96.4**	±6.0
	MCH	pg	25.6	±2.5	29.2	±2.5	31.7	±2.5
	MCHC	g/L	320	±30	328	±30	332	±30
	RDW-CV	%	17.6	±3.0	15.9	±3.0	15.5	±3.0
	RDW-SD	fL	51.5	±10.0	51.6	±10.0	53.8	±12.0
	PLT	$\times10^9$/L	**45**	±20	**254**	±40	**557**	±60
	MPV	fL	9.4	±3.0	8.9	±3.0	8.8	±3.0
	PDW	fL	9.0	±3.0	10.1	±3.0	9.8	±3.0
	PCT	%	0.043	±0.043	0.226	±0.100	0.490	±0.200
	P-LCR	%	20.4	±8.0	20.1	±8.0	18.7	±8.0
	P-LCC	$\times10^9$/L	9	±9	52	±25	102	±35

【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

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

2024-07-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND D6-CRP DH76CRP (Technical File Version B1.0 to B2.0)	**WBC**	$\times10^9$/L	**3.56**	±0.50	**8.32**	±1.00	**18.55**	±2.50
	Neu%	%	48.7	±9.0	56.9	±8.0	65.9	±7.0
	Lym%	%	39.3	±9.0	30.2	±8.0	21.0	±6.0
	Mon%	%	8.3	±4.0	7.8	±5.0	7.0	±6.0
	Eos%	%	3.7	±3.7	5.1	±5.1	6.1	±6.1
	Bas%	%	63.3	±8.0	72.1	±8.0	50.4	±8.0
	Neu#	$\times10^9$/L	1.73	±0.40	4.73	±0.70	12.23	±1.40
	Lym#	$\times10^9$/L	1.40	±0.40	2.51	±0.70	3.90	±1.10
	Mon#	$\times10^9$/L	0.30	±0.14	0.65	±0.50	1.30	±1.10
	Eos#	$\times10^9$/L	0.13	±0.13	0.42	±0.42	1.13	±1.13
	Bas#	$\times10^9$/L	2.25	±0.30	6.00	±0.70	9.35	±1.50
	RBC	$\times10^{12}$/L	**2.21**	±0.18	**4.49**	±0.24	**5.28**	±0.50
	HGB	g/L	**60**	±4	**134**	±6	**169**	±8
	HCT	%	18.1	±2.0	40.6	±3.0	51.1	±4.0
	MCV	fL	**81.9**	±5.0	**90.5**	±5.0	**96.8**	±6.0
	MCH	pg	27.0	±2.5	29.7	±2.5	31.8	±2.5
	MCHC	g/L	335	±30	333	±30	334	±30
	RDW-CV	%	17.8	±3.0	16.2	±3.0	15.8	±3.0
	RDW-SD	fL	51.9	±10.0	52.4	±10.0	54.7	±12.0
	PLT	$\times10^9$/L	**51**	±20	**263**	±40	**574**	±60
	MPV	fL	8.8	±3.0	9.2	±3.0	8.9	±3.0
	PDW	fL	10.6	±3.0	10.6	±3.0	10.3	±3.0
	PCT	%	0.045	±0.045	0.242	±0.100	0.511	±0.200
	P-LCR	%	20.4	±8.0	21.7	±8.0	20.0	±8.0
	P-LCC	$\times10^9$/L	13	±13	57	±25	110	±35

【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

CBC-DH

HEMATOLOGY CONTROL

Reference Values provided by DYMIND

CONTROL

LOT DH2405

2024-04-07

2024-07-05

Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND D6-CRP DH76CRP (Technical File Version B2.2 or higher)	**WBC**	$\times10^9$/L	**3.69**	±0.50	**8.61**	±1.00	**19.27**	±2.50
	Neu%	%	49.1	±9.0	55.7	±8.0	64.9	±7.0
	Lym%	%	39.0	±9.0	30.2	±8.0	20.7	±6.0
	Mon%	%	7.9	±4.0	7.4	±5.0	6.7	±6.0
	Eos%	%	4.0	±4.0	6.7	±6.0	7.7	±7.0
	Bas%	%	63.0	±8.0	72.4	±8.0	81.8	±8.0
	Neu#	$\times10^9$/L	1.81	±0.40	4.79	±0.70	12.50	±1.40
	Lym#	$\times10^9$/L	1.44	±0.40	2.60	±0.70	3.99	±1.10
	Mon#	$\times10^9$/L	0.29	±0.14	0.64	±0.50	1.29	±1.10
	Eos#	$\times10^9$/L	0.15	±0.15	0.58	±0.50	1.48	±1.30
	Bas#	$\times10^9$/L	2.32	±0.30	6.23	±0.70	15.76	±1.50
	RBC	$\times10^{12}$/L	**2.27**	±0.18	**4.62**	±0.24	**5.41**	±0.50
	HGB	g/L	**60**	±4	**134**	±6	**170**	±8
	HCT	%	18.7	±2.0	41.9	±3.0	52.7	±4.0
	MCV	fL	**82.4**	±5.0	**90.9**	±5.0	**97.3**	±6.0
	MCH	pg	26.4	±2.5	29.1	±2.5	31.3	±2.5
	MCHC	g/L	326	±30	325	±30	327	±30
	RDW-CV	%	17.6	±3.0	15.9	±3.0	15.5	±3.0
	RDW-SD	fL	52.5	±10.0	52.7	±10.0	54.6	±12.0
	PLT	$\times10^9$/L	**50**	±20	**265**	±40	**578**	±60
	MPV	fL	9.2	±3.0	9.4	±3.0	9.1	±3.0
	PDW	fL	11.4	±3.0	11.1	±3.0	10.5	±3.0
	PCT	%	0.046	±0.046	0.249	±0.100	0.526	±0.200
	P-LCR	%	22.9	±8.0	22.9	±8.0	21.1	±8.0
	P-LCC	$\times10^9$/L	12	±12	62	±25	120	±35

【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 DF50 Vet DF52 Vet DF55 Vet DF56 Vet (Technical File Version A8.0 or higher and B1.0 or higher)	**WBC**	$\times10^9$/L	**3.46**	±0.50	**8.09**	±1.00	**18.40**	±2.50
	Neu%	%	49.2	±9.0	56.2	±8.0	65.1	±7.0
	Lym%	%	39.5	±9.0	29.6	±8.0	19.6	±8.0
	Mon%	%	6.2	±4.0	5.8	±5.0	6.5	±6.5
	Eos%	%	5.1	±5.0	8.4	±6.0	8.8	±8.0
	Bas%	%	1.5	±1.5	1.6	±1.6	1.3	±1.3
	Neu#	$\times10^9$/L	1.70	±0.40	4.55	±0.70	11.98	±1.40
	Lym#	$\times10^9$/L	1.37	±0.40	2.40	±0.70	3.61	±1.50
	Mon#	$\times10^9$/L	0.21	±0.14	0.47	±0.47	1.20	±1.20
	Eos#	$\times10^9$/L	0.18	±0.15	0.68	±0.50	1.62	±1.50
	Bas#	$\times10^9$/L	0.05	±0.05	0.13	±0.13	0.24	±0.24
	RBC	$\times10^{12}$/L	**2.32**	±0.18	**4.70**	±0.24	**5.45**	±0.50
	HGB	g/L	**57**	±4	**135**	±6	**175**	±8
	HCT	%	19.0	±2.0	43.0	±3.0	53.5	±4.0
	MCV	fL	**81.9**	±5.0	**91.6**	±5.0	**98.2**	±6.0
	MCH	pg	24.5	±2.5	28.7	±2.5	31.9	±2.5
	MCHC	g/L	302	±30	316	±30	329	±30
	RDW-CV	%	13.9	±3.0	12.9	±3.0	12.6	±3.0
	RDW-SD	fL	48.1	±10.0	49.0	±10.0	51.1	±12.0
	PLT	$\times10^9$/L	**55**	±20	**266**	±40	**527**	±60
	MPV	fL	8.8	±3.0	8.9	±3.0	8.8	±3.0
	PDW	fL	10.0	±3.0	12.0	±3.0	11.9	±3.0
	PCT	%	0.048	±0.048	0.237	±0.100	0.464	±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.

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Applicable Instruments	Parameter	Unit	Low		Normal		High	
DYMIND DF1-CRP DF3-CRP DF5-CRP DF50CRP DF52CRP DF53CRP (Technical File Version A4.0 to A5.7)	**WBC**	$\times10^9$/L	**3.47**	±0.50	**8.13**	±1.00	**18.65**	±2.50
	Neu%	%	50.9	±9.0	56.8	±8.0	66.6	±7.0
	Lym%	%	38.3	±9.0	29.2	±8.0	19.7	±6.0
	Mon%	%	5.6	±4.0	5.7	±5.0	4.9	±4.9
	Eos%	%	5.2	±5.0	8.3	±6.0	8.8	±7.0
	Bas%	%	2.9	±2.9	2.5	±2.5	3.0	±3.0
	Neu#	$\times10^9$/L	1.76	±0.40	4.62	±0.70	12.42	±1.40
	Lym#	$\times10^9$/L	1.33	±0.40	2.37	±0.70	3.67	±1.10
	Mon#	$\times10^9$/L	0.19	±0.14	0.46	±0.46	0.91	±0.91
	Eos#	$\times10^9$/L	0.18	±0.15	0.68	±0.50	1.64	±1.30
	Bas#	$\times10^9$/L	0.10	±0.10	0.20	±0.20	0.56	±0.56
	RBC	$\times10^{12}$/L	**2.23**	±0.18	**4.53**	±0.24	**5.31**	±0.50
	HGB	g/L	**58**	±4	**133**	±6	**171**	±8
	HCT	%	18.7	±2.0	42.4	±3.0	53.1	±4.0
	MCV	fL	**83.9**	±5.0	**93.7**	±5.0	**100.1**	±6.0
	MCH	pg	25.4	±2.5	28.7	±2.5	31.6	±2.5
	MCHC	g/L	308	±30	311	±30	321	±30
	RDW-CV	%	15.1	±3.0	14.0	±3.0	14.0	±3.0
	RDW-SD	fL	52.2	±10.0	53.7	±10.0	56.7	±12.0
	PLT	$\times10^9$/L	**50**	±20	**260**	±40	**531**	±60
	MPV	fL	9.0	±3.0	8.9	±3.0	8.9	±3.0
	PDW	fL	10.4	±3.0	12.1	±3.0	11.7	±3.0
	PCT	%	0.045	±0.045	0.231	±0.100	0.473	±0.200
	P-LCR	%	24.7	±8.0	29.3	±8.0	28.5	±8.0
	P-LCC	$\times10^9$/L	13	±13	78	±25	150	±35

【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 DF1-CRP DF3-CRP DF5-CRP DF50CRP DF52CRP DF53CRP (Technical File Version A6.0)	**WBC**	$\times10^9$/L	**3.57**	±0.50	**8.59**	±1.00	**19.63**	±2.50
	Neu%	%	49.8	±9.0	55.8	±8.0	65.3	±7.0
	Lym%	%	38.4	±9.0	29.5	±8.0	20.0	±6.0
	Mon%	%	6.8	±4.0	6.7	±5.0	6.0	±6.0
	Eos%	%	5.0	±5.0	8.0	±6.0	8.7	±7.0
	Bas%	%	1.9	±1.9	1.8	±1.8	1.5	±1.5
	Neu#	$\times10^9$/L	1.78	±0.40	4.79	±0.70	12.82	±1.40
	Lym#	$\times10^9$/L	1.37	±0.40	2.53	±0.70	3.93	±1.10
	Mon#	$\times10^9$/L	0.24	±0.14	0.58	±0.50	1.18	±1.10
	Eos#	$\times10^9$/L	0.18	±0.15	0.69	±0.50	1.71	±1.30
	Bas#	$\times10^9$/L	0.07	±0.07	0.15	±0.15	0.29	±0.29
	RBC	$\times10^{12}$/L	**2.23**	±0.18	**4.48**	±0.24	**5.25**	±0.50
	HGB	g/L	**58**	±4	**134**	±6	**173**	±8
	HCT	%	18.4	±2.0	40.5	±3.0	50.5	±4.0
	MCV	fL	**82.8**	±5.0	**90.3**	±5.0	**96.1**	±6.0
	MCH	pg	26.0	±2.5	29.6	±2.5	32.8	±2.5
	MCHC	g/L	320	±30	334	±30	346	±30
	RDW-CV	%	15.3	±3.0	14.2	±3.0	14.0	±3.0
	RDW-SD	fL	53.0	±10.0	54.4	±10.0	57.1	±12.0
	PLT	$\times10^9$/L	**52**	±20	**268**	±40	**550**	±60
	MPV	fL	8.8	±3.0	8.8	±3.0	8.8	±3.0
	PDW	fL	9.9	±3.0	11.7	±3.0	11.4	±3.0
	PCT	%	0.046	±0.046	0.236	±0.100	0.484	±0.200
	P-LCR	%	24.3	±8.0	28.4	±8.0	27.8	±8.0
	P-LCC	$\times10^9$/L	13	±13	78	±25	152	±35

【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 DF1-CRP DF3-CRP DF5-CRP DF50CRP DF52CRP DF53CRP (Technical File Version A6.1 or higher)	**WBC**	$\times10^9$/L	**3.67**	±0.50	**8.60**	±1.00	**19.90**	±2.50
	Neu%	%	49.4	±9.0	55.7	±8.0	65.2	±7.0
	Lym%	%	39.0	±9.0	29.8	±8.0	20.3	±6.0
	Mon%	%	7.0	±4.0	6.6	±5.0	6.0	±6.0
	Eos%	%	4.6	±4.6	7.9	±6.0	8.5	±7.0
	Bas%	%	2.0	±2.0	1.8	±1.8	1.6	±1.6
	Neu#	$\times10^9$/L	1.81	±0.40	4.79	±0.70	12.97	±1.40
	Lym#	$\times10^9$/L	1.43	±0.40	2.56	±0.70	4.04	±1.10
	Mon#	$\times10^9$/L	0.26	±0.14	0.57	±0.50	1.19	±1.10
	Eos#	$\times10^9$/L	0.17	±0.15	0.68	±0.50	1.69	±1.30
	Bas#	$\times10^9$/L	0.07	±0.07	0.15	±0.15	0.32	±0.32
	RBC	$\times10^{12}$/L	**2.24**	±0.18	**4.48**	±0.24	**5.25**	±0.50
	HGB	g/L	**59**	±4	**133**	±6	**172**	±8
	HCT	%	18.4	±2.0	40.1	±3.0	50.1	±4.0
	MCV	fL	**82.1**	±5.0	**89.5**	±5.0	**95.5**	±6.0
	MCH	pg	26.1	±2.5	29.5	±2.5	32.4	±2.5
	MCHC	g/L	323	±30	335	±30	345	±30
	RDW-CV	%	15.6	±3.0	14.8	±3.0	14.8	±3.0
	RDW-SD	fL	54.1	±10.0	56.8	±10.0	59.5	±12.0
	PLT	$\times10^9$/L	**43**	±20	**265**	±40	**588**	±60
	MPV	fL	9.0	±3.0	8.7	±3.0	8.6	±3.0
	PDW	fL	9.6	±3.0	11.3	±3.0	11.0	±3.0
	PCT	%	0.039	±0.039	0.231	±0.100	0.506	±0.200
	P-LCR	%	25.4	±8.0	27.2	±8.0	26.4	±8.0
	P-LCC	$\times10^9$/L	13	±13	73	±25	151	±35

【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 DM71X DM72X DM78X DM79X (Technical File Version A1.0 or higher)	**WBC**	$\times10^9$/L	**3.51**	±0.50	**8.22**	±1.00	**18.52**	±2.50
	Neu%	%	49.4	±9.0	56.3	±8.0	65.0	±7.0
	Lym%	%	38.3	±9.0	29.7	±8.0	20.2	±6.0
	Mon%	%	8.3	±4.0	7.4	±5.0	6.9	±6.0
	Eos%	%	4.0	±4.0	6.6	±6.0	7.9	±7.0
	Bas%	%	62.6	±8.0	71.8	±8.0	81.5	±8.0
	Neu#	$\times10^9$/L	1.73	±0.40	4.63	±0.70	12.04	±1.40
	Lym#	$\times10^9$/L	1.34	±0.40	2.44	±0.70	3.74	±1.10
	Mon#	$\times10^9$/L	0.29	±0.14	0.61	±0.50	1.28	±1.10
	Eos#	$\times10^9$/L	0.14	±0.14	0.54	±0.50	1.46	±1.30
	Bas#	$\times10^9$/L	2.20	±0.30	5.90	±0.70	15.09	±1.50
	RBC	$\times10^{12}$/L	**2.24**	±0.18	**4.60**	±0.24	**5.41**	±0.50
	HGB	g/L	**60**	±4	**134**	±6	**169**	±8
	HCT	%	17.9	±2.0	41.3	±3.0	52.3	±4.0
	MCV	fL	**80.1**	±5.0	**89.9**	±5.0	**96.7**	±6.0
	MCH	pg	26.3	±2.5	28.8	±2.5	30.8	±2.5
	MCHC	g/L	338	±30	328	±30	326	±30
	RDW-CV	%	17.9	±3.0	16.3	±3.0	15.8	±3.0
	RDW-SD	fL	51.2	±10.0	51.8	±10.0	53.8	±12.0
	PLT	$\times10^9$/L	**46**	±20	**259**	±40	**576**	±60
	MPV	fL	9.2	±3.0	9.3	±3.0	9.1	±3.0
	PDW	fL	11.2	±3.0	11.0	±3.0	10.5	±3.0
	PCT	%	0.042	±0.042	0.241	±0.100	0.524	±0.200
	P-LCR	%	22.9	±8.0	22.5	±8.0	20.8	±8.0
	P-LCC	$\times10^9$/L	11	±11	59	±25	120	±35

【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 UN71 Vet UN73 Vet (Technical File Version A1.0 or higher)	**WBC**	$\times10^9$/L	**3.52**	±0.50	**8.44**	±1.00	**19.29**	±2.50
	Neu%	%	48.7	±9.0	55.4	±8.0	65.2	±7.0
	Lym%	%	38.6	±9.0	30.7	±8.0	21.0	±6.0
	Mon%	%	7.9	±4.0	7.5	±5.0	6.7	±6.0
	Eos%	%	3.7	±3.7	5.2	±5.2	6.1	±6.1
	Bas%	%	1.1	±1.1	1.2	±1.2	1.0	±1.0
	Neu#	$\times10^9$/L	1.71	±0.40	4.68	±0.70	12.58	±1.40
	Lym#	$\times10^9$/L	1.36	±0.40	2.59	±0.70	4.05	±1.10
	Mon#	$\times10^9$/L	0.28	±0.14	0.63	±0.50	1.29	±1.10
	Eos#	$\times10^9$/L	0.13	±0.13	0.44	±0.44	1.18	±1.18
	Bas#	$\times10^9$/L	0.04	±0.04	0.10	±0.10	0.19	±0.19
	RBC	$\times10^{12}$/L	**2.25**	±0.18	**4.52**	±0.24	**5.29**	±0.50
	HGB	g/L	**60**	±4	**134**	±6	**171**	±8
	HCT	%	18.2	±2.0	40.7	±3.0	51.3	±4.0
	MCV	fL	**80.7**	±5.0	**90.0**	±5.0	**96.9**	±6.0
	MCH	pg	26.1	±2.5	29.0	±2.5	31.4	±2.5
	MCHC	g/L	330	±30	326	±30	330	±30
	RDW-CV	%	17.9	±3.0	16.2	±3.0	15.8	±3.0
	RDW-SD	fL	45.3	±10.0	45.5	±10.0	47.2	±12.0
	PLT	$\times10^9$/L	**41**	±20	**249**	±40	**529**	±60
	MPV	fL	9.4	±3.0	8.7	±3.0	8.6	±3.0
	PDW	fL	8.5	±3.0	9.8	±3.0	9.3	±3.0
	PCT	%	0.039	±0.039	0.216	±0.100	0.455	±0.200
	P-LCR	%	18.1	±8.0	18.7	±8.0	18.0	±8.0
	P-LCC	$\times10^9$/L	8	±8	47	±25	93	±35

【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 DM60 Vet DM61 Vet DM62 Vet DM63 Vet (Technical File Version A1.4 or higher)	**WBC**	$\times10^9$/L	**3.30**	±0.50	**7.74**	±1.00	**17.67**	±2.50
	Neu%	%	50.5	±9.0	55.5	±8.0	65.2	±7.0
	Lym%	%	38.2	±9.0	29.7	±8.0	19.7	±6.0
	Mon%	%	6.5	±4.0	6.8	±5.0	6.4	±6.0
	Eos%	%	4.8	±4.8	8.0	±6.0	8.7	±7.0
	Bas%	%	1.9	±1.9	1.7	±1.7	1.6	±1.6
	Neu#	$\times10^9$/L	1.67	±0.40	4.29	±0.70	11.52	±1.40
	Lym#	$\times10^9$/L	1.26	±0.40	2.30	±0.70	3.48	±1.10
	Mon#	$\times10^9$/L	0.21	±0.14	0.53	±0.50	1.13	±1.10
	Eos#	$\times10^9$/L	0.16	±0.15	0.62	±0.50	1.54	±1.30
	Bas#	$\times10^9$/L	0.06	±0.06	0.13	±0.13	0.28	±0.28
	RBC	$\times10^{12}$/L	**2.24**	±0.18	**4.46**	±0.24	**5.20**	±0.50
	HGB	g/L	**57**	±4	**134**	±6	**173**	±8
	HCT	%	18.3	±2.0	40.1	±3.0	49.8	±4.0
	MCV	fL	**81.4**	±5.0	**89.9**	±5.0	**95.7**	±6.0
	MCH	pg	26.0	±2.5	30.8	±2.5	33.5	±2.5
	MCHC	g/L	329	±30	351	±30	357	±30
	RDW-CV	%	13.8	±3.0	12.6	±3.0	12.4	±3.0
	RDW-SD	fL	50.0	±10.0	50.8	±10.0	53.3	±12.0
	PLT	$\times10^9$/L	**47**	±20	**265**	±40	**538**	±60
	MPV	fL	8.7	±3.0	8.8	±3.0	8.5	±3.0
	PDW	fL	9.4	±3.0	11.6	±3.0	11.4	±3.0
	PCT	%	0.041	±0.041	0.233	±0.100	0.457	±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