

Para 12[®] Extend



Multi-Parameter Assayed Hematology Control¹



2019-05-06

350307-36
2017-09

Open-vial stability 30 days²

Instrument ³ Abbott CELL-DYN [®] 1400 ³ , 1600, 1700	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
Parameter ⁴						
WBC 10 ⁹ /L	2.4	0.4	9.4	1.0	23.6	2.5
LYM 10 ⁹ /L	1.3	0.6	2.7	1.2	3.3	2.0
LYM %	53.0	10.0	28.2	9.0	13.8	6.0
MID 10 ⁹ /L	0.2	0.2	0.8	0.3	1.6	1.2
MID %	6.2	4.5	8.7	5.0	6.9	5.0
GRAN 10 ⁹ /L	1.0	0.8	5.9	2.0	18.7	3.5
GRAN %	40.7	10.0	63.2	9.0	79.4	8.0
RBC 10 ¹² /L	2.38	0.20	4.38	0.25	5.48	0.30
HGB g/dL	6.0	0.5	11.9	0.7	16.2	1.0
[HGB] g/L	60	5	119	7	162	10
HCT %	18.8	2.0	36.8	4.5	48.8	4.5
[HCT] L/L	0.188	0.020	0.368	0.045	0.488	0.045
MCV fL	79	6	84	7	89	7
MCH pg	25.2	2.5	27.2	2.5	29.6	2.5
MCHC g/dL	31.9	3.5	32.3	3.5	33.2	3.5
[MCHC] g/L	319	35	323	35	332	35
RDW %	20.7	5.0	19.6	5.0	19.4	5.0
PLT 10 ⁹ /L	66	25	247	35	631	85
MPV fL	NA	NA	8.7	1.5	8.6	1.5

Instrument ³ Abbott CELL-DYN [®] 1800 ^{**}	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
Parameter ⁴						
WBC 10 ⁹ /L	1.9	0.4	7.5	1.0	18.4	2.5
LYM 10 ⁹ /L	1.0	0.6	2.2	1.2	2.7	2.0
LYM %	54.2	10.0	29.1	9.0	14.5	6.0
MID 10 ⁹ /L	0.2	0.2	0.8	0.3	1.6	1.2
MID %	8.0	6.0	10.4	5.0	8.7	5.0
GRAN 10 ⁹ /L	0.8	0.8	4.5	2.0	14.1	3.5
GRAN %	37.9	10.0	60.5	9.0	76.9	8.0
RBC 10 ¹² /L	2.36	0.20	4.24	0.25	5.23	0.30
HGB g/dL	5.8	0.5	11.6	0.7	16.2	1.0
[HGB] g/L	58	5	116	7	162	10
HCT %	19.4	2.0	36.9	4.5	48.1	4.5
[HCT] L/L	0.194	0.020	0.369	0.045	0.481	0.045
MCV fL	82	6	87	7	92	7
MCH pg	24.6	2.5	27.4	2.5	31.0	2.5
MCHC g/dL	29.9	3.5	31.4	3.5	33.7	3.5
[MCHC] g/L	299	35	314	35	337	35
RDW %	20.0	5.0	19.0	5.0	18.2	5.0
PLT 10 ⁹ /L	64	25	222	35	571	85
MPV fL	NA	NA	9.4	1.5	9.4	1.5

Instrument ³ Beckman Coulter [®] Ac-T [™] Series / Ac-T diff [™] / Ac-T diff 2 [™]	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
Parameter ⁴						
WBC 10 ⁹ /L	2.2	0.4	8.5	1.0	22.4	2.5
LYM 10 ⁹ /L	1.2	0.6	2.3	1.2	3.0	2.0
LYM %	52.6	10.0	27.3	9.0	13.5	6.0
MID 10 ⁹ /L	0.2	0.2	1.0	0.3	2.1	1.2
MID %	7.6	6.0	12.3	5.0	9.5	5.0
GRAN 10 ⁹ /L	0.9	0.8	5.1	2.0	17.2	3.5
GRAN %	39.9	10.0	60.4	9.0	77.0	8.0
RBC 10 ¹² /L	2.26	0.20	4.22	0.25	5.41	0.30
HGB g/dL	5.6	0.5	11.4	0.7	15.9	1.0
[HGB] g/L	56	5	114	7	159	10
HCT %	17.9	2.0	35.4	4.5	47.8	4.5
[HCT] L/L	0.179	0.020	0.354	0.045	0.478	0.045
MCV fL	79.0	6.0	83.9	7.0	88.3	7.0
MCH pg	24.8	2.5	27.0	2.5	29.4	2.5
MCHC g/dL	31.3	3.5	32.2	3.5	33.3	3.5
[MCHC] g/L	313	35	322	35	333	35
RDW %	18.8	5.0	17.6	5.0	17.0	5.0
PLT 10 ⁹ /L	61	25	211	35	529	85
MPV fL	9.1	1.5	9.4	1.5	9.5	1.5

Instrument ³ Mindray BC-3200	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
Parameter ⁴						
WBC 10 ⁹ /L	2.0	0.4	8.0	1.0	20.6	2.5
LYM 10 ⁹ /L	1.0	0.6	2.0	1.2	2.5	2.0
LYM %	48.1	10.0	24.9	9.0	12.3	6.0
MID 10 ⁹ /L	0.2	0.2	0.9	0.3	1.7	1.2
MID %	9.7	6.0	11.3	5.0	8.4	5.0
GRAN 10 ⁹ /L	0.9	0.8	5.1	2.0	16.3	3.5
GRAN %	42.2	10.0	63.8	9.0	79.3	8.0
RBC 10 ¹² /L	2.32	0.20	4.25	0.40	5.42	0.40
HGB g/dL	5.8	0.5	11.6	1.0	16.1	1.2
[HGB] g/L	58	5	116	10	161	12
HCT %	19.2	2.5	37.4	4.5	50.1	4.5
[HCT] L/L	0.192	0.025	0.374	0.045	0.501	0.045
MCV fL	82.7	6.0	88.0	7.0	92.4	7.0
MCH pg	25.0	2.5	27.3	2.5	29.7	2.5
MCHC g/dL	30.2	3.5	31.0	3.5	32.1	3.5
[MCHC] g/L	302	35	310	35	321	35
RDW %	15.7	5.0	15.1	5.0	14.6	5.0
PLT 10 ⁹ /L	69	25	208	35	501	85
MPV fL	8.7	1.5	8.5	1.5	8.3	1.5

Instrument ³
Mindray BC-3600

Parameter ⁴	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
WBC 10 ⁹ /L	1.8	0.4	6.8	1.0	16.7	2.5
LYM 10 ⁹ /L	1.0	0.6	1.9	1.2	2.4	2.0
LYM %	53.6	10.0	28.4	9.0	14.4	6.0
MID 10 ⁹ /L	0.2	0.2	0.8	0.3	1.6	1.2
MID %	8.6	6.0	11.6	5.0	9.5	5.0
GRAN 10 ⁹ /L	0.9	0.8	4.1	2.0	12.7	3.5
GRAN %	37.8	10.0	60.1	9.0	76.2	8.0
RBC 10 ¹² /L	2.32	0.20	4.36	0.40	5.49	0.40
HGB g/dL	5.4	0.5	11.1	1.0	15.5	1.2
[HGB] g/L	54	5	111	10	155	12
HCT %	17.5	2.5	34.5	4.5	45.5	4.5
[HCT] L/L	0.175	0.025	0.345	0.045	0.455	0.045
MCV fL	75.4	6.0	79.1	7.0	82.9	7.0
MCH pg	23.3	2.5	25.5	2.5	28.2	2.5
MCHC g/dL	30.9	3.5	32.2	3.5	34.1	3.5
[MCHC] g/L	309	35	322	35	341	35
RDW %	16.1	5.0	15.6	5.0	15.3	5.0
PLT 10 ⁹ /L	67	25	227	35	556	85
MPV fL	8.2	1.5	8.1	1.5	8.1	1.5

Instrument ³
ERMA PCE-210

Parameter ⁴	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
WBC 10 ⁹ /L	1.9	0.4	7.9	0.7	20.4	2.5
LYM 10 ⁹ /L	0.9	0.5	2.0	0.5	2.4	1.5
LYM %	48.0	8.0	25.9	6.0	11.6	6.0
MID 10 ⁹ /L	0.2	0.2	0.4	0.3	1.0	1.0
MID %	6.0	6.0	5.4	5.0	5.0	5.0
GRAN 10 ⁹ /L	0.9	0.8	5.4	1.0	17.2	3.0
GRAN %	46.9	8.0	68.7	7.0	84.5	8.0
RBC 10 ¹² /L	2.45	0.20	4.50	0.25	5.54	0.35
HGB g/dL	5.5	0.8	11.5	0.9	16.0	1.0
[HGB] g/L	55	8	115	9	160	10
HCT %	19.6	2.0	38.7	4.5	49.9	4.5
[HCT] L/L	0.196	0.020	0.387	0.045	0.499	0.045
MCV fL	80.2	6.0	85.9	7.0	90.0	7.0
MCH pg	22.4	2.5	25.6	3.0	28.9	3.0
MCHC g/dL	28.0	3.5	29.8	3.5	32.1	3.5
[MCHC] g/L	280	35	298	35	321	35
RDW %	21.5	5.0	20.5	5.0	20.1	5.0
PLT 10 ⁹ /L	64	25	207	45	535	85
MPV fL	10.9	1.5	10.0	1.5	9.6	1.5
PDW %	12.6	3.0	12.2	1.7	11.8	1.7

Instrument ³
ABX Micros 60 /
Siemens Advia 60

Parameter ⁴	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
WBC 10 ⁹ /L	2.1	0.4	8.4	0.6	21.5	2.5
LYM 10 ⁹ /L	1.3	0.5	2.8	0.5	4.0	1.5
LYM %	60.2	8.0	33.9	6.0	18.6	6.0
MID 10 ⁹ /L	0.2	0.2	0.9	0.3	1.8	1.0
MID %	6.4	4.5	10.2	5.0	8.3	5.0
GRAN 10 ⁹ /L	0.8	0.8	4.7	1.0	15.7	3.0
GRAN %	33.4	8.0	55.9	7.0	73.1	8.0
RBC 10 ¹² /L	2.23	0.15	4.21	0.20	5.34	0.25
HGB g/dL	5.7	0.5	11.5	0.6	15.7	0.7
[HGB] g/L	57	5	115	6	157	7
HCT %	17.2	2.0	34.5	3.0	46.5	4.0
[HCT] L/L	0.172	0.020	0.345	0.030	0.465	0.040
MCV fL	77	6	82	6	87	6
MCH pg	25.6	2.0	27.3	2.0	29.4	2.0
MCHC g/dL	33.1	3.0	33.3	3.0	33.8	3.0
[MCHC] g/L	331	30	333	30	338	30
RDW %	16.1	5.0	15.4	5.0	14.9	5.0
PLT 10 ⁹ /L	69	15	228	30	543	60
MPV fL	9.6	1.5	9.2	1.5	9.1	1.5

Instrument ³
Diatron[®] Abacus,
Abacus Jr.

Parameter ⁴	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
WBC 10 ⁹ /L	2.2	0.4	8.3	0.6	20.0	2.5
LYM 10 ⁹ /L	1.2	0.5	2.4	0.5	3.0	1.5
LYM %	55.7	8.0	28.9	6.0	14.8	6.0
MID 10 ⁹ /L	0.2	0.2	1.2	0.3	2.3	1.0
MID %	8.5	6.0	14.6	5.0	11.4	5.0
GRAN 10 ⁹ /L	0.8	0.8	4.7	1.0	14.8	3.0
GRAN %	35.8	8.0	56.5	7.0	73.9	8.0
RBC 10 ¹² /L	2.32	0.15	4.19	0.20	5.15	0.25
HGB g/dL	5.8	0.5	11.5	0.6	15.9	0.7
[HGB] g/L	58	5	115	6	159	7
HCT %	18.4	2.0	35.2	3.0	45.6	4.0
[HCT] L/L	0.184	0.020	0.352	0.030	0.456	0.040
MCV fL	79.4	6.0	84.0	6.0	88.6	6.0
MCH pg	25.0	2.0	27.4	2.0	30.9	2.0
MCHC g/dL	31.5	3.0	32.7	3.0	34.9	3.0
[MCHC] g/L	315	30	327	30	349	30
RDW %	18.9	5.0	18.0	5.0	17.5	5.0
PLT 10 ⁹ /L	60	15	227	30	584	60
PCT %	0.06	0.03	0.22	0.06	0.57	0.20
MPV fL	9.8	1.5	9.8	1.5	9.7	1.5
PDW %	32.6	5.5	33.2	3.7	33.9	2.7

Instrument ³ Nihon Kohden Celltac a MEK-6400 Series / MEK-6500	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
Parameter ⁴	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
WBC 10 ⁹ /L	2.2	0.4	8.2	0.6	20.9	2.5
LYM 10 ⁹ /L	1.4	0.5	2.6	0.5	4.4	1.5
LYM %	62.4	11.0	32.1	6.0	21.2	6.0
MID 10 ⁹ /L	0.2	0.2	0.7	0.3	1.7	1.0
MID %	6.0	6.0	8.8	5.0	7.9	5.0
GRAN 10 ⁹ /L	0.8	0.8	4.8	1.0	14.9	3.0
GRAN %	32.2	11.0	59.1	7.0	71.5	8.0
RBC 10 ¹² /L	2.29	0.15	4.27	0.20	5.37	0.25
HGB g/dL	5.7	0.5	11.5	0.6	15.8	0.7
[HGB] g/L	57	5	115	6	158	7
HCT %	17.6	2.0	35.0	3.0	46.2	4.0
[HCT] L/L	0.176	0.020	0.350	0.030	0.462	0.040
MCV fL	77	6	82	6	86	6
MCH pg	24.9	2.0	26.9	2.0	29.4	2.0
MCHC g/dL	32.4	3.0	32.9	3.0	34.2	3.0
[MCHC] g/L	324	30	329	30	342	30
RDW %	19.0	5.0	18.1	5.0	17.6	5.0
PLT 10 ⁹ /L	80	15	261	30	632	60
PCT %	0.06	0.03	0.18	0.06	0.44	0.20
MPV fL	7.1	1.5	7.0	1.5	6.9	1.5
PDW %	14.4	5.5	12.5	3.7	12.1	2.7

1 Multi-Parameter Assayed Hematology Control

Kontrolní hematologické látky pro multiparametrickou analýzu / Contrôle dosé d'hématologie à paramètres multiples / Hämatologie-Kontrolle mit Sollwertzuweisung für mehrere Parameter / Controllo di analisi ematologica multi-parametro / Analysert hematologikontroll for flere parametere / Wielo-parametrowa oznaczona kontrola hematologiczna. / Control hematológico ensayado de múltiples parámetros / Multiparameterkontroll för analyserad hematologi

2 Open-vial stability 30 days

Stabilita otevřené lékovky 30 dní / Stabilité en flacon ouvert 30 jours / Stabilität geöffnete Flaschen 30 Tage / Stabiliteten til åpnet ampulle 30 dager / Stabilità della fiala aperta 30 giorni / Trwałość otwartego opakowania 30 liczba dni / Estabilidad de la cápsula abierta 30 días / Hållbarhet för öppen flaska 30 dagar

3 Instrument

Nástroj / Instrument / Gerät / Strumento / Instrument / Aparat / Instrumento / Instrument

4 Parameter

Parametr / Paramètre / Parameter / Parametro / Parameter / Parametr / Parámetro / Parameter

5 Control

Kontrola / Contrôle / Kontrolle / Controllo / Kontroll / Kontrola / Control / Kontroll

\bar{x} Mean

Střední hodnota / Moyenne / Mittelwert / Media / Gjennomsnitt / Wartość średnia / Media / Medelvärde

+/- Expected Range

± očekávaný rozsah / ± Intervalle escompté / ± Erwartungsbereich / ± Range previsto / ± Forventet område / ± Zakres wartości oczekiwanych / ± Interval previsto / ± Förväntat intervall

[] SI Units

Mezinárodní soustava jednotek SI / Unitès SI / SI- Einheiten / Unità SI / SI-måleenheter / Jednostki SI / Unidades SI / SI-enheter

Instrument ³ HTI MicroCC-20 Plus	CONTROL ⁵ L		CONTROL ⁵ N		CONTROL ⁵ H	
	LOT 83020422		LOT 83020423		LOT 83020424	
	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
Parameter ⁴	\bar{x}	+/-	\bar{x}	+/-	\bar{x}	+/-
WBC 10 ⁹ /L	2.1	0.4	7.6	0.6	18.0	2.5
LYM 10 ⁹ /L	1.2	0.5	2.3	0.5	2.8	1.5
LYM %	55.8	8.0	29.9	6.0	15.8	6.0
MID 10 ⁹ /L	0.2	0.2	1.1	0.3	2.3	1.0
MID %	9.6	4.5	14.6	5.0	12.5	5.0
GRAN 10 ⁹ /L	0.8	0.8	4.2	1.0	12.9	3.0
GRAN %	34.6	8.0	55.4	7.0	71.7	8.0
RBC 10 ¹² /L	2.20	0.15	4.20	0.20	5.20	0.25
HGB g/dL	5.8	0.5	11.7	0.6	15.6	0.7
[HGB] g/L	58	5	117	6	156	7
HCT %	18.1	2.0	35.7	3.0	46.6	4.0
[HCT] L/L	0.181	0.020	0.357	0.030	0.466	0.040
MCV fL	82.1	6.0	85.0	6.0	89.7	6.0
MCH pg	26.4	2.0	27.9	2.0	30.0	2.0
MCHC g/dL	32.0	3.0	32.8	3.0	33.5	3.0
[MCHC] g/L	320	30	328	30	335	30
RDW %	13.4	5.0	13.0	5.0	13.1	5.0
PLT 10 ⁹ /L	73	25	218	30	499	60
MPV fL	8.0	1.5	8.0	1.5	7.8	1.5

* CELL-DYN 1400 instruments disregard MID values.

Přístroje CELL-DYN ignorují hodnoty MID. / Les instruments CELL-DYN 1400 ignorent les valeurs MID. / CELL-DYN 1400 Geräte ignorieren MID-Werte. / Gli strumenti CELL-DYN 1400 ignorano i valori INTERMEDI. / CELL-DYN 1400-instrumenter ignorerer MID-verdier. / Analizatory CELL-DYN 1400 nie liczą leukocytów MID (o objętości pomiędzy neutrofilami a limfocytami). / Los instrumentos CELL-DYN 1400 no toman en cuenta los valores de la población de células de tamaño mediano. / CELL-DYN 1400-instrument bortser från MID-värden.

** CD-1800 MPV values may report intermittently with Para 12 Extend.

Hodnoty CD-1800 MPV se při použití Para 12 Extend mohou hlásit přerušovaně. / Lorsque le Para 12 Extend est utilisé sur le CD-1800, il se peut que les valeurs du volume plaquettaire moyen (VPM) soient rapportées d'une façon sporadique. / Bei Verwendung von Para 12 Extend werden die durchschnittlichen Thrombozytenwerte von CD-1800 unter Umständen unregelmäßig angegeben. / I valori del volume piastrinico medio possono essere refertati dal CD-1800 in modo intermittente quando si utilizza Para 12 Extend. / Bruk av Para 12 Extend kan medføre intermitterende CD-1800-rapportering av gjennomsnittlige blodplateverdier. / Para 12 Extend umozliwia okresowe podawanie wartości przez CELL-DYN 1800. / Con Para 12 Extend, la notificación de los volúmenes plaquetarios medios por parte del CD-1800 podría ser intermitente. / När Para 12 Extend används kan genomsnittliga trombocytvolym som rapporteras av CELL-DYN 1800 rapporteras emellanåt.

Alarms or flags may be seen with Para 12 Extend. These alarms and flags may be disregarded if the control is performing within the assay ranges.

Alarmy nebo praporky upozornění lze vidět u Para 12 Extend. Tyto alarmy a praporky se mohou ignorovat, pokud je kontrola v rozmezí analýzy.

Des alarmes ou indicateurs peuvent être observés avec Para 12 Extend. Ces alarmes et indicateurs peuvent être ignorés si le contrôle se situe dans les intervalles d'essai.

Es ist möglich, dass mit dem Para 12 Extend Alarm- oder Warnmeldungen (Flags) erscheinen. Derartige Alarm- und Warnmeldungen können ignoriert werden, wenn die Kontrollwerte innerhalb der Assaybereiche liegen.

Allarmi e flag possono essere osservati con Para 12 Extend. Questi allarmi e queste flag possono essere ignorati se i valori del controllo si trovano all'interno dei range di analisi.

Alarmer eller flagg kan sees med Para 12 Extend. Disse alarmene og flaggene kan ignoreres hvis kontrollen utføres innenfor analyseområdene.

Przy użyciu Para 12 Extend mogą pojawić się alarmy lub sygnały ostrzegawcze. Jeśli wyniki badania kontroli mieszczą się w zakresie oznaczeń, ostrzeżenia te można zignorować.

Pueden verse alarmas o indicadores con Para 12 Extend. Pueden pasarse por alto estas alarmas e indicadores si el control está funcionando dentro de las gamas de análisis.

Larm eller flaggor kan ses med Para 12 Extend. Man kan ignorera dessa larm och flaggor om kontrollens prestanda ligger inom fastställda områden för analysen.

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