ECAT FOUNDATION

External quality Control for Assays and Tests

With a focus on Thrombosis and Haemostasis

REPORT



SURVEY 2023-P4 PFA 100/200 Labcode 1492

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Version: 1.0.0

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Date of Issue : 29-januari-2024

Survey : 2023-P4

Report : PFA 100/200

Note:

In the Survey Manual 2023 detailed information is given regarding the ECAT external quality assessment programme, including the statistical evaluation and explanation of the report.

This Survey Manual 2023 should be considered as an integral part of this survey report.

Please notice the information regarding the homogeneity of samples used and the between-laboratory variation in the paragraph on the statistical evaluation of the Survey Manual.

General Information

Complaints

Any complaints regarding this survey report should be reported to the ECAT before **March 13th, 2024.** Complaints received after this date will not be taken into consideration.

Exclusion of results

Results < [value] or > [value] are excluded in the statistical analysis.

When other results are excluded in the statistical analysis, these results are placed between brackets.

Several participants reported comments in numeric result fields (e.g. an error code of the PFA analyser). These comments are placed between brackets. Because of the limited space for "your results" in the report, these comments are not always fully visible.

Report results in correct units

Several participants reported haematocrit in percentage. Please use in future surveys for haematocrit the unit: L/L. We have converted the values into this unit.

This report is authorized by:

Dr. P. Meijer Director

Note: A printed version of the actual Survey Manual is provided to all participants once a year. This manual can also be downloaded from the member section of the ECAT website.

ECAT Foundation

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Appendices are an integral part of the total report.



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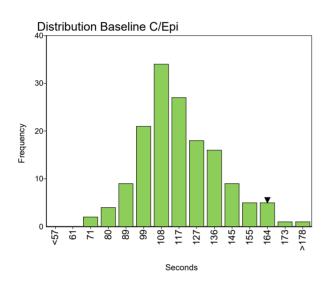
Labcode:

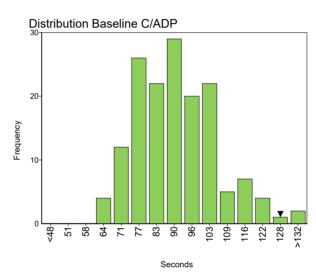
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Baseline results from donor native blood:

Test Parameter	Unit	n	Mean	Range	Own Result	Own Result	Own Result
Platelet Count	x10º/L	135	245	94 - 424	256		
Mean Platelet Volume	fL	118	9.8	6.5 - 14.0	9.9		
Haematocrit	L/L	133	0.40	0.31 - 0.50	0.44		
VWF:AG	%	61	123	47 - 220			
VWF:RCo	%	20	111	41 - 173			
VWF:Activity	%	42	129	42 - 295			
VWF:CBA	%	10	121	79 - 180			
FVIII:C	%	53	147	62 - 264			
Baseline C/Epi	seconds	152	117	70 - 192	165		
Baseline C/ADP	seconds	154	90	63 - 149	127		





Classification baseline results from donor native blood:

				No			
Test Parameter	Normal	Borderine	Abnormal	Classification	Own Result	Own Result	Own Result
Platelet Count	137	1	1	0	Normal		
Mean Platelet Volume	118	4	2	0	Normal		
Haematocrit	128	6	0	0	Normal		
VWF:AG	54	1	4	2			
VWF:RCo	19	0	1	0			
VWF:Activity	36	2	2	2			
VWF:CBA	10	0	0	1			
FVIII:C	44	3	5	2			
Baseline C/Epi	146	4	2	0	Normal		
Baseline C/ADP	148	5	1	0	Normal		

Comments:



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The following participants reported deviating results which were excluded in the statistical evaluation:

192 - (Mean Platelet Volume) : 88.3 fL 245 - (Platelet Count) : 257000 / µL 277 - (FVIII:C) : 1.75% 365 - (Mean Platelet Volume) : 85 fL 417 - (Mean Platelet Volume) : 89.8 fL 530 - (Mean Platelet Volume) : 86.7 fL 1274 - (Mean Platelet Volume) : 84.7 fL 1313 - (Mean Platelet Volume) : 94.2 fL

1352 - (Platelet Count) : 226000 / mm^3 **4561** - (Platelet Count) : 270000 x 10^9 **4567** - (Haematocrit) : 4.07 L/L

On the basis of the baseline test results reported by all participants, it can be concluded that almost in all cases a normal donor was used.



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Sample No 23.237

Sample Details Normal PFA sample

Prior Use None
Unit seconds
Expiry Date 02-februari-2025

Homogeneity - Homogeneity Parameter n.a.

Number of Participants 174

Number of Responders 162 Response Rate 93 %

Comments One participant reported an error code for the measurement with the C/Epi cartridge and two

participants reported an error code for the measurement with the C/ADP cartridge.

Furthermore, two participants reported a result above the upper limit of the measuring range [>

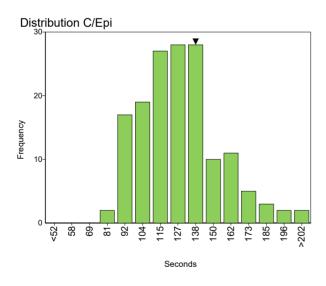
(value)] for the C/Epi and/or C/ADP cartridge.

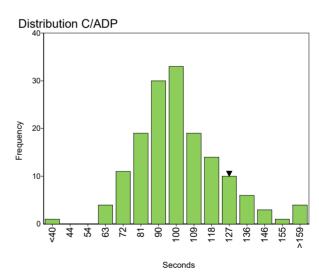
Classification for sample 23.237:

				No			
Test Parameter	Normal	Borderine	Abnormal	Classification	Own Result	Own Result	Own Result
C/Epi	129	5	18	1	Normal		
C/ADP	120	15	17	2	Normal		

Sample results:

Parameter	n	assigned value	Uncert.	CV (%)	range	your result	z-score	your result	z-score	your result	z-score
C/Epi	154	127	2.5	19.7	77 - 234	143	0.64				
C/ADP	155	100	2.0	20.0	37 - 300	125	1.28				





Final Conclusion:

	N
Normal	122
Borderline	11
Mild Defect	9
Severe Defect	4
Aspirin-like Defect	9
Unable to Interpret	1
Test Failure	3
Other	1
No Conclusion	3

Normal	

Conclusion Comments:

About 75% of the participants correctly classified this sample as normal. Surprisingly, about 13% of the participants observed a defect in this sample and also about 7% of the participants classified the sample as borderline.

There were also some participants that observed a test failure or were not able to interpret the results or did not give a conclusion.



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Sample No 23.238

Sample Details PFA sample with a mild defect

Prior Use None Unit seconds

Expiry Date 02-februari-2025

Homogeneity 12.7 % Homogeneity Parameter C/Epi

For any method used for the measurement of this parameter with a CV ≤ 42.3% the criterion for homogeneity could not be met and the Z-scores should be interpreted with caution. See for further

details the paragraph on the statistical evaluation in the Survey Manual.

Number of Participants 174

Number of Responders 162 Response Rate 93 %

Comments Four participants reported an error code for the measurement with the C/Epi cartridge and also

four participants reported an error code for the measurement with the C/ADP cartridge. Furthermore, twenty-two participants reported a result above the upper limit of the measuring

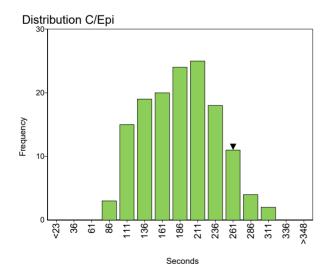
range [> (value)] for the C/Epi and/or C/ADP cartridge.

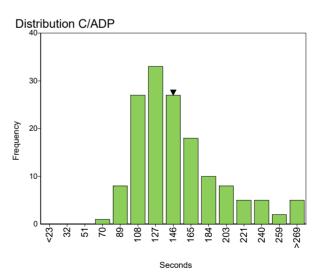
Classification for sample 23.238:

			No				
Test Parameter	Normal	Borderine	Abnormal	Classification	Own Result	Own Result	Own Result
C/Epi	40	5	108	4	Abnormal		
C/ADP	35	11	111	4	Normal		

Sample results:

Parameter	n	assigned value	Uncert.	CV (%)	range	your result	z-score	your result	z-score	your result	z-score
C/Epi	141	186	5.7	29.1	82 - 300	254	1.26				
C/ADP	149	146	4.2	28.2	76 - 300	137	-0.21				





Final Conclusion:



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	N
Normal	25
Borderline	4
Mild Defect	46
Severe Defect	48
Aspirin-like Defect	22
Unable to Interpret	3
Test Failure	6
Other	1
No Conclusion	8

Aspirin-like Defect	

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Conclusion Comments:

About 71% (n=116) of the participants classified this as sample with a defect. Forty percent (n=46) of them correctly indicated a mild defect.

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There were also a number of participants that observed a test failure or were not able to interpret the results or did not give a conclusion.

About 15% (n=25) of the participants classified this sample with a mild defect as a normal sample!