ECAT FOUNDATION

External quality Control for Assays and Tests

With a focus on Thrombosis and Haemostasis

REPORT



SURVEY 2023-M3
Main
Labcode 1492

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Version:

1.0.0

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Labcode: 1492

Date of Issue : 30-oktober-2023

Survey : 2023-M3

Report : Main

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 **December 12th, 2023**. Complaints received after this date will not be taken into consideration.

Multiple instruments

From 2019 you have the possibility to submit per parameter results for three different instruments and or methods. However, some participants have submitted three times the same results, suggesting that this are separate results. This is <u>not</u> the case and may affect the statistical analysis. We have excluded the results from the second and third test system in the statistical analysis. Do not submit multiple times the same results anymore in future surveys.

Exclusion of results

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

When other results (e.g. deviating results) are excluded in the statistical analysis, these results are placed between brackets.

This report is authorized by:

Dr. M.J. van Essen-Hollestelle Programme Expert

<u>Note</u>: 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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OVERVIEW Z-SCORES

1.0.0

Version:

UV:Satisfactory (-2 ≤ Z-score ≤ 2)

UV: Need attention (-3 < Z-score < -2 or 2 < Z-score < 3)

UV:Unsatisfactory (Z-score ≤ -3 or ≥ 3)
BV: Unacceptable

						Bivarate				
Module	Parameter	Sample	Test System		Total	A	Assay	M	lethod	Analysis
ADAMTS13 - I	ADAMTS13 Activty	23.152	1		-0.83		-1.00		-0.97	
		23.153	1		-0.41		-0.28			



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ADAMTS13 - I

ADAMTS13 Activity

Sample No 23.152

Sample Details Plasma with an ADAMTS13 activity level between 20 and 30%

 Prior Use
 None

 Unit
 % or IU/dL

 Expiry Date
 30-april-2025

Homogeneity 3.1 % Homogeneity Parameter ADAMTS13 act

For any method used for the measurement of this parameter with a CV ≤ 10.3% 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 166

Number of Responders 153 Response Rate 92 %

Comments None.

Classificatio n Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classificatio
Total	7	4	13	148	1

Your Classification Abnormal

Own Reagent												
	n	assigned value	Uncert.	CV (%)	Range	your result	z-score	your result	z-score	your result	z-score	
Total Group	172	23	0.32	14.5	13 - 54	20.5	-0.83	Toodit		Toodit		
CLIA/FIA	78	23	0.37	11.2	18 - 46	20.5	-1.00					
II Acustar ADAMTS13 activity	71	23	0.40	11.8	18 - 46	20.5	-0.97					



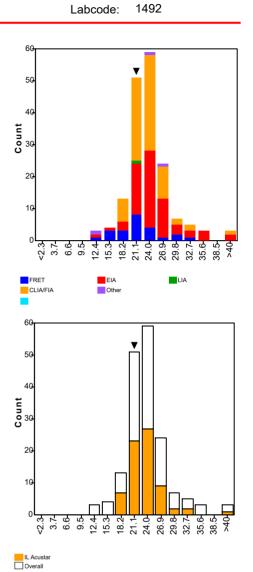
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Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Total Group	172	23	0.32	14.5	13 - 54
FRET	23	21	1.23	22.3	13 - 34
Homemade	12	20	1.64	22.5	13 - 29
Immucor ADAMTS13 activity	4	22			16 - 30
Other	6	21			17 - 26
Sekisui Actifluor ADAMTS13 activity	1	34			-
Enzyme Immuno Assay	67	24	0.58	15.5	13 - 54
Homemade	2	25			18 - 31
Other	1	25			-
Technoclone ADAMTS13 acitivity	63	24	0.55	14.3	13 - 54
Technoclone ADAMTS13 activity/antigen	1	15			-
Latex Immuno Assay	1	21			-
Homemade	1	21			-
CLIA/FIA	78	23	0.37	11.2	18 - 46
Technoclone Technofluor ADAMTS13 ac	7	23			21 - 26
Other	3	23			14 - 26
Homemade	2	20			14 - 26
Other	1	23			-





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ADAMTS13 - I

ADAMTS13 Activity

Version:

1.0.0

Sample No 23.153

Sample Details Plasma with an ADAMTS13 activity level < 1%

 Prior Use
 None

 Unit
 % or IU/dL

 Expiry Date
 30-april-2025

Homogeneity 62.6 % Homogeneity Parameter ADAMTS13 act

For any method used for the measurement of this parameter with a $CV \le 208.7\%$ 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 166

Number of Responders 153 Response Rate 92 %

Comments

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

176 : 40% 610 : 13.1% 4560 : 11.6%

We investigated the potential effect of the high homogeneity and observed comparable interlaboratory variation results with previous similar samples used in this EQA program. Therefore, we could conclude that the high homogeneity does not effect the interlaboratory variation results for this sample.

The extreme low "between laboratory CV" for the IL Acustar ADAMTS13 activity method is caused by the fact that the majority of results had a very small distribution.

Classificatio n Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classificatio
Total	0	0	0	173	1

Your Classification Abnormal

Own Reagent												
	n	assigned	Uncert.	CV (%)	Range	your	z-score	your	z-score	your	z-score	
		value				result		result		result		
Total Group	122	0.5	0.04	83.9	0.0 - 6.3	0.3	-0.41					
CLIA/FIA	66	0.3	0.02	31.9	0.0 - 0.9	0.3	-0.28					
IL Acustar ADAMTS13 activity	63	0.3	0.00	0.0	0.0 - 0.8	0.3						



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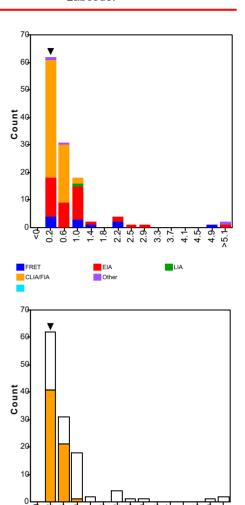
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Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Total Group	122	0.5	0.04	83.9	0.0 - 6.3
FRET	11	1.0	0.38	104.8	0.0 - 5.0
Homemade	6	0.5			0.0 - 5.0
Immucor ADAMTS13 activity	1	1.2			-
Other	3	1.0			0.0 - 2.0
Sekisui Actifluor ADAMTS13 activity	1	1.0			-
Enzyme Immuno Assay	41	0.7	0.12	91.7	0.0 - 6.3
Homemade	1	1.5			-
Technoclone ADAMTS13 acitivity	39	0.6	0.11	88.4	0.0 - 6.3
Technoclone ADAMTS13 activity/antigen	1	0.0			-
Latex Immuno Assay	1	1.0			-
Homemade	1	1.0			-
CLIA/FIA	66	0.3	0.02	31.9	0.0 - 0.9
Technoclone Technofluor ADAMTS13 ac	3	0.0			0.0 - 0.9
Other	3	0.5			0.0 - 6.0
Homemade	2	3.0			0.0 - 6.0
Other	1	0.5			-



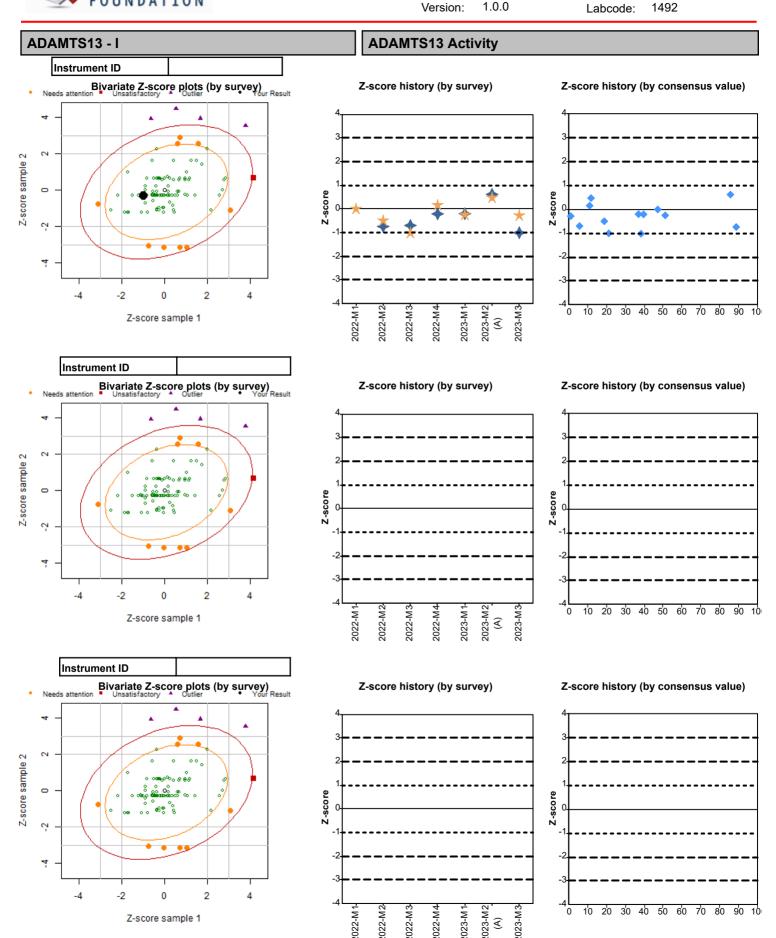
IL Acustar
Overall



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ADAMTS13 - I

ADAMTS13 antigen

Version:

1.0.0

Sample No 23.152

Sample Details Plasma with an ADAMTS13 activity level between 20 and 30%

 Prior Use
 None

 Unit
 IU/mL

 Expiry Date
 30-april-2025

Homogeneity 3.1 % Homogeneity Parameter ADAMTS13 act

For any method used for the measurement of this parameter with a CV ≤ 10.3% 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 166

Number of Responders 22 Response Rate 13 %

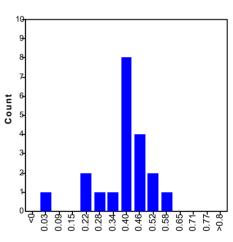
Comments Two participants (labcodes 1086 and 1196) selected the wrong unit when submitting the results.

These results were excluded in the statistical evaluation.

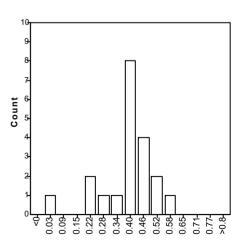
Classificatio n Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classificatio
Total	11	2	3	6	0

Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Enzyme Immuno Assay	20	0.40	0.03	26.5	0.04 - 0.59
Technozym ADAMTS13 activity/antigen	3	0.22			0.22 - 0.40
Technozym ADAMTS13 antigen	17	0.43	0.03	20.3	0.04 - 0.59







Overall



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ADAMTS13 - I

ADAMTS13 antigen

Version:

1.0.0

Sample No 23.153

Sample Details Plasma with an ADAMTS13 activity level < 1%

 Prior Use
 None

 Unit
 IU/mL

 Expiry Date
 30-april-2025

Homogeneity 62.6 % Homogeneity Parameter ADAMTS13 act

For any method used for the measurement of this parameter with a CV ≤ 208.7% 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 166

Number of Responders 22 Response Rate 13 %

Comments Two participants (labcodes 1086 and 1196) selected the wrong unit

Two participants (labcodes 1086 and 1196) selected the wrong unit when submitting the results.

These results were excluded in the statistical evaluation.

The following participant reported a deviating result which was excluded in the statistical evaluation:

215: 0.418%

We investigated the potential effect of the high homogeneity and observed comparable interlaboratory variation results with previous similar samples used in this EQA program. Therefore, we could conclude that the high homogeneity does not effect the interlaboratory variation results for this sample.

Classificatio n Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classificatio
Total	1	0	4	18	0



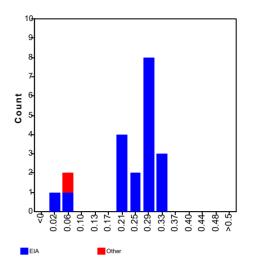
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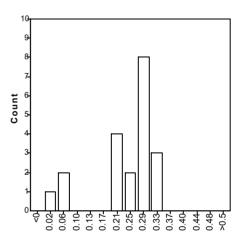
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Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Total Group	20	0.25	0.02	25.5	0.01 - 0.34
Enzyme Immuno Assay	19	0.26	0.02	21.6	0.01 - 0.34
Technozym ADAMTS13 activity/antigen	2	0.11			0.01 - 0.20
Technozym ADAMTS13 antigen	17	0.27	0.01	17.8	0.05 - 0.34
Other	1	0.06			-
Homemade	1	0.06			-





Overall

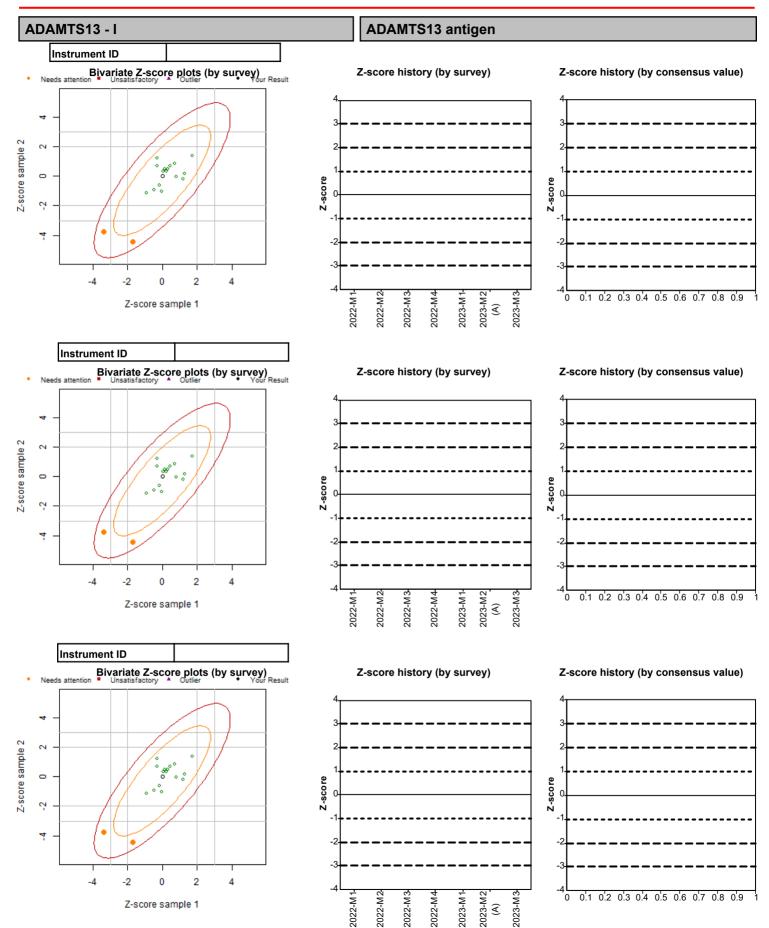


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