ECAT FOUNDATION

External quality Control for Assays and Tests

With a focus on Thrombosis and Haemostasis

REPORT



SURVEY 2022-M1 Main Labcode 1492

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Version:

1.0.0

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Labcode: 1492

Survey: 2022-M1

Date of Issue : 20-May-2022

Survey : 2022-M1

Report : Main

Note:

In the Survey Manual 2022 detailed information is given regarding the ECAT external quality assessment programme, including the statistical evaluation and explanation of the report.

This Survey Manual 2022 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 on page 21 of the Survey Manual.

General Information

Complaints

Any complaints regarding this survey report should be reported to the ECAT before **July 1st**, **2022**. 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, a few participants (labcode **887 & 3828**) 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

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

Director: Dr. P. Meijer
ECAT Office
P.O. Box 107
2250 AC Voorschoten, The Netherlands
phone +31 (0) 71 3030 910; fax + 31 (0) 71 3030 919
E-mail: info@ecat.nl
Website: www.ecat.nl
VAT number: NL802836872B01

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OVERVIEW Z-SCORES

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UV:Satisfactory (-2 ≤ Z-score ≤ 2) BV: Acceptable UV: Need attention (-3 < Z-score < -2 or 2 < Z-score < 3) BV: Questionable UV:Unsatisfactory (Z-score ≤ -3 or ≥ 3)

BV: Unacceptable

							Bivarate
Module	Parameter	Sample	Test System	Total	Assay	Method	Analysis
ADAMTS13 - I	ADAMTS13 Activty/antigen Adam 1	22.52	1	0.86	0.00	-0.08	



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ADAMTS13 - I

ADAMTS13 Activity

Sample No 22.51

Sample Details Plasma with an ADAMTS13 activity level <5%

Prior Use Prior Use: None Unit % or IU/dL **Expiry Date** 31-January-2024

0.0 % ADAMTS13 Homogeneity **Homogeneity Parameter**

143 **Number of Participants**

129 **Number of Responders** Response Rate 90 %

Comments

Participant 1487 reported deviating results which were excluded in the statistical evaluation. These results might be caused by an accidental mix-up of the sample 22.51 and 22.52.

The CV of the method group CLIA/FIA and the method IL Acustar ADAMTS13 activity is below 0.1, which could result in a large Z-score when deviating a relatively small distance from the assigned value. Therefore, the Z-score should be interpret with caution, since it might be clinically not significant.

Classification Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classification
Total	3	0	0	138	2

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	57	0			0 - 7	< 0.2					
CLIA/FIA	17	0	0.00	0.0	0 - 1	< 0.2					
IL Acustar ADAMTS13 activity	16	0	0.00	0.0	0 - 1	< 0.2					



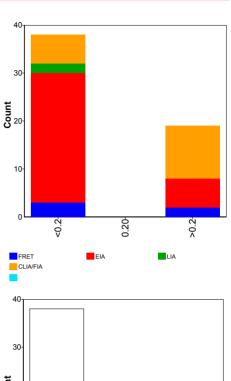
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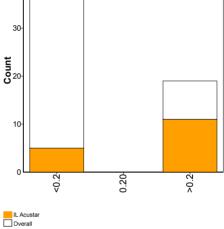
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Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Total Group	57	0			0 - 7
FRET	5	0			0 - 7
Homemade	2	2			0 - 3
Other	2	0			0 - 0
Sekisui Actifluor ADAMTS13 activity	1	7			-
Enzyme Immuno Assay	33	0			0 - 3
Homemade	1	2			-
Other	2	0			0 - 0
Technoclone ADAMTS13 acitivity	29	0			0 - 3
Technoclone ADAMTS13 activity/antigen	1	0			-
Latex Immuno Assay	2	0			0 - 0
Homemade	2	0			0 - 0
CLIA/FIA	17	0	0.00	0.0	0 - 1
Technoclone Technofluor ADAMTS13 activ	1	0			-







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ADAMTS13 - I

ADAMTS13 Activity

Version:

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Sample No 22.52

Sample Details Borderline Coagulation Control Plasma

Prior Use: None
Unit % or IU/dL

Expiry Date 31-December-2022

Homogeneity 1.5 % Homogeneity Parameter APTT

For any method used for the measurement of this parameter with a CV ≤ 5.0% 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 143

Number of Responders 129 Response Rate 90 %

Comments Participant 1487 reported deviating results which were excluded in the statistical evaluation. These

results might be caused by an accidental mix-up of the sample 22.51 and 22.52.

Classification Overview	Normal	BorderLine Borderline normal abnormal		Abnormal	No classification
Total	70	18	30	23	2

Your Classification Normal

Own Reagent											
	n	assigned value	Uncert.	CV (%)	Range	your result	z-score	your result	z-score	your result	z-score
Total Group	142	52	1.17	21.4	10 - 104	62.0	0.86				
CLIA/FIA	43	62	1.45	12.2	48 - 90	62.0	0.00				
IL Acustar ADAMTS13 activity	41	63	1.38	11.3	49 - 90	62.0	-0.08				



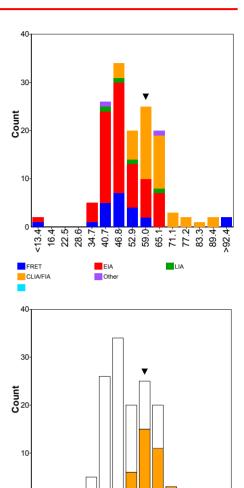
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Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Total Group	142	52	1.17	21.4	10 - 104
FRET	22	47	2.19	17.4	10 - 104
Homemade	10	42	3.25	19.5	10 - 56
Immucor ADAMTS13 activity	2	49			45 - 53
Other	9	48			43 - 104
Sekisui Actifluor ADAMTS13 activity	1	57			-
Enzyme Immuno Assay	71	48	1.28	18.0	12 - 66
Homemade	2	37			34 - 40
Other	3	61			60 - 64
Technoclone ADAMTS13 acitivity	65	48	1.14	15.5	34 - 66
Technoclone ADAMTS13 activity/antigen	1	12			-
Latex Immuno Assay	4	49			42 - 67
Homemade	3	45			42 - 52
Other	1	67			-
CLIA/FIA	43	62	1.45	12.2	48 - 90
Technoclone Technofluor ADAMTS13 activ	2	48			48 - 49
Other	2	55			42 - 68
Homemade	1	68			-
Other	1	42			-





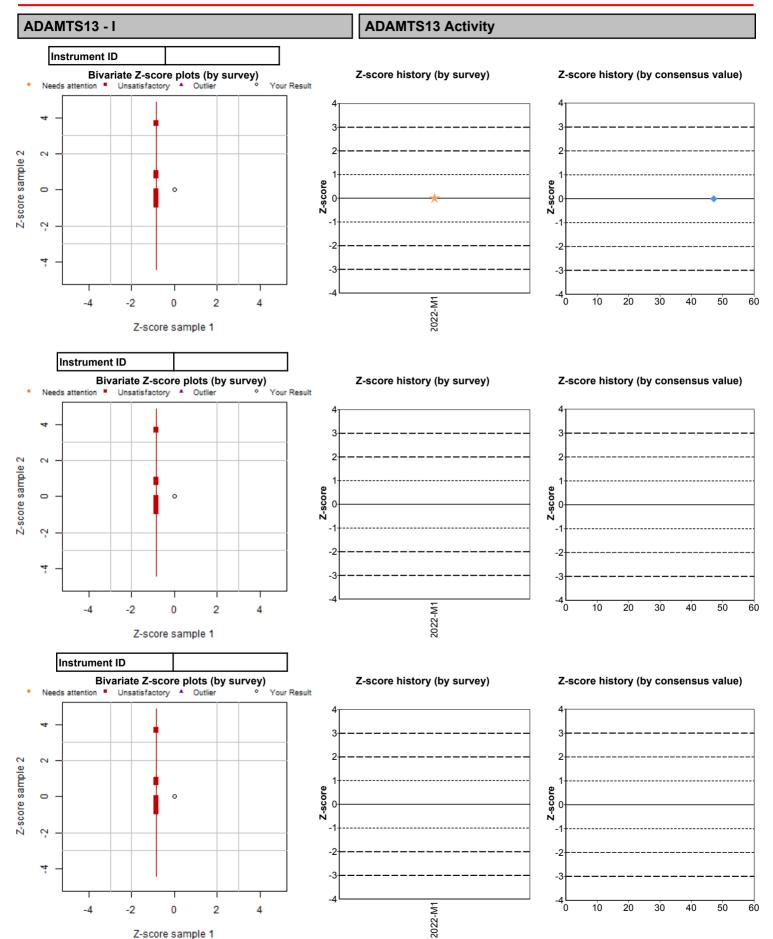


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ADAMTS13 - I

ADAMTS13 antigen

Version:

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Sample No 22.51

Sample Details Plasma with an ADAMTS13 activity level <5%

Prior Use Prior Use: None

Unit IU/mL

Expiry Date 31-January-2024

Homogeneity 0.0 % Homogeneity Parameter ADAMTS13

Number of Participants 143

Number of Responders 15 Response Rate 10 %

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

9055: 3 IU/mL

Classification Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classification
Total	1	0	0	14	0

Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Enzyme Immuno Assay	10	0.01	0.00	59.0	0.00 - 0.03
Technozym ADAMTS13 activity/antigen	2	0.02			0.01 - 0.02
Technozym ADAMTS13 antigen	8	0.01			0.00 - 0.03

No data for graph



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ADAMTS13 - I

ADAMTS13 antigen

Version:

1.0.0

Sample No 22.52

Sample Details Borderline Coagulation Control Plasma

Prior Use: None

Unit IU/mL

Expiry Date 31-December-2022

Homogeneity 1.5 % Homogeneity Parameter APTT

For any method used for the measurement of this parameter with a CV ≤ 5.0% 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 143

Number of Responders 15 Response Rate 10 %

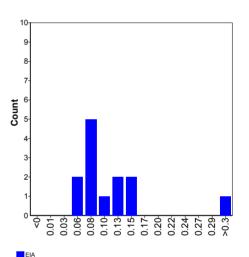
Comments The following participant reported a deviating result which was excluded in the statistical evaluation:

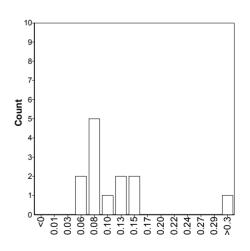
9055: 2 IU/mL

Classification Overview	Normal	BorderLine normal			No classification
Total	1	1	1	12	0

Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Enzyme Immuno Assay	13	0.10	0.02	43.9	0.05 - 0.42
Technozym ADAMTS13 activity/antigen	4	0.08			0.06 - 0.42
Technozym ADAMTS13 antigen	9	0.10			0.05 - 0.16





Overall



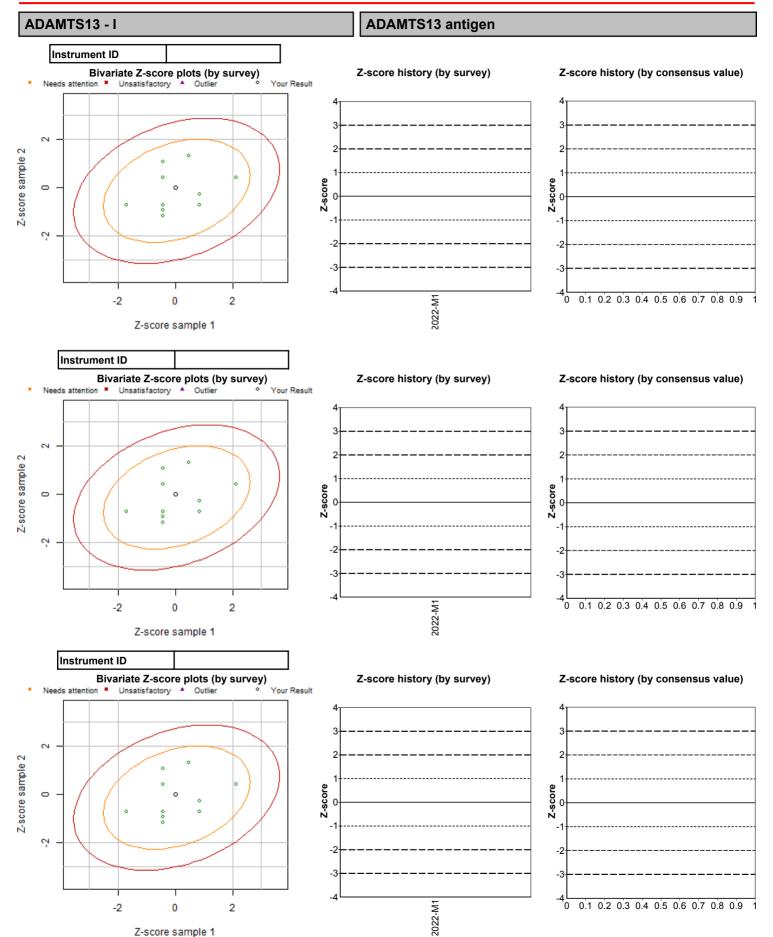
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