# **ECAT FOUNDATION**

# **External quality Control for Assays and Tests**

With a focus on Thrombosis and Haemostasis

# **REPORT**



SURVEY 2022-M2 Main Labcode 1492

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Survey: 2022-M2

Version: 1.0.0

Date of Issue 02-August-2022

Survey 2022-M2

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 September 13th, 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 not 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. 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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# **OVERVIEW Z-SCORES**

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	A	Assay	M	lethod	Analysis
ADAMTS13 - I	ADAMTS13 Activty	22.90	1		-0.56		-0.74		-0.70	
		22.91	1		-0.68		-0.50		-0.50	



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## ADAMTS13 - I

## **ADAMTS13 Activity**

Sample No 22.90

Sample Details Normal Coagulation Plasma

Prior Use None Unit % or IU/dL

Expiry Date 31-December-2029

Homogeneity 0.0 % Homogeneity Parameter Unknown

Number of Participants 146

Number of Responders 131 Response Rate 90 %

Comments One participant (labcode 9907191) selected the wrong unit when submitting the result. This result

was excluded in the statistical evaluation.

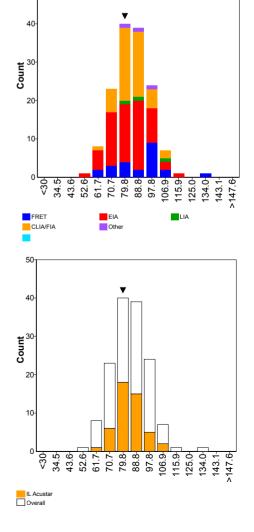
Classification Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classification
Total	142	2	0	1	2

Your Classification Normal

Own Reagent CV (%) assigned Uncert. z-score n Range your z-score your z-score your value result result result Total Group 144 84 1.21 13.8 78 -0.56 57 - 134 CLIA/FIA 50 84 1.50 10.1 78 -0.74 62 - 105 IL Acustar ADAMTS13 activity 47 84 10.7 78 -0.70 1.64 62 - 105

#### **Other Reagents**

	n	assigned	Uncert.	CV (%)	Range
		value		(11)	
Total Group	144	84	1.21	13.8	57 - 134
FRET	23	89	3.83	16.6	58 - 134
Homemade	10	94	4.18	11.3	72 - 104
Immucor ADAMTS13 activity	3	77			71 - 95
Other	9	89			58 - 134
Sekisui Actifluor ADAMTS13 activity	1	100			-
Enzyme Immuno Assay	65	82	1.90	14.9	57 - 117
Homemade	3	80			71 - 95
Other	1	75			-
Technoclone ADAMTS13 acitivity	60	83	1.96	14.7	63 - 117
Technoclone ADAMTS13 activity/antigen	1	57			-
Latex Immuno Assay	3	93			83 - 111
Homemade	2	88			83 - 93
Other	1	111			-
CLIA/FIA	50	84	1.50	10.1	62 - 105
Technoclone Technofluor ADAMTS13 activ	3	85			83 - 88
Other	3	89			79 - 94
Homemade	2	92			89 - 94
Other	1	79			-





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## ADAMTS13 - I

## **ADAMTS13 Activity**

Sample No 22.91

Sample Details Plasma with an ADAMTS13 activity level between 10 and 30%

Prior Use None
Unit % or IU/dL

Expiry Date 31-December-2023

Homogeneity 4.3 % Homogeneity Parameter ADAMTS13

For any method used for the measurement of this parameter with a CV ≤ 14.3% 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 146

Number of Responders 131 Response Rate 90 %

Comments One participant (labcode 9907191) selected the wrong unit when submitting the result. This result

was excluded in the statistical evaluation.

Classification Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classification
Total	0	1	10	133	3

Your Classification Borderline abnormal

Own Reagent											
	n	assigned value	Uncert.	CV (%)	Range	your result	z-score	your result	z-score	your result	z-score
Total Group	143	23	0.40	16.3	6 - 45	20.6	-0.68				
CLIA/FIA	50	22	0.50	12.8	11 - 30	20.6	-0.50				
IL Acustar ADAMTS13 activity	47	22	0.53	13.1	11 - 30	20.6	-0.50				



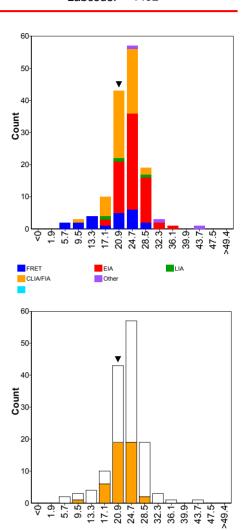
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## **Other Reagents**

	n	assigned value	Uncert.	CV (%)	Range
Total Group	143	23	0.40	16.3	6 - 45
FRET	22	19	2.04	40.8	6 - 29
Homemade	9	21			12 - 29
Immucor ADAMTS13 activity	3	15			6 - 21
Other	9	22			6 - 26
Sekisui Actifluor ADAMTS13 activity	1	28			-
Enzyme Immuno Assay	65	25	0.47	12.3	18 - 35
Homemade	2	23			20 - 25
Other	1	21			-
Technoclone ADAMTS13 acitivity	61	25	0.46	11.6	18 - 35
Technoclone ADAMTS13 activity/antigen	1	18			-
Latex Immuno Assay	3	21			17 - 29
Homemade	2	19			17 - 21
Other	1	29			-
CLIA/FIA	50	22	0.50	12.8	11 - 30
Technoclone Technofluor ADAMTS13 activ	3	22			19 - 23
Other	3	34			26 - 45
Homemade	2	40			34 - 45
Other	1	26			-



IL Acustar
Overall

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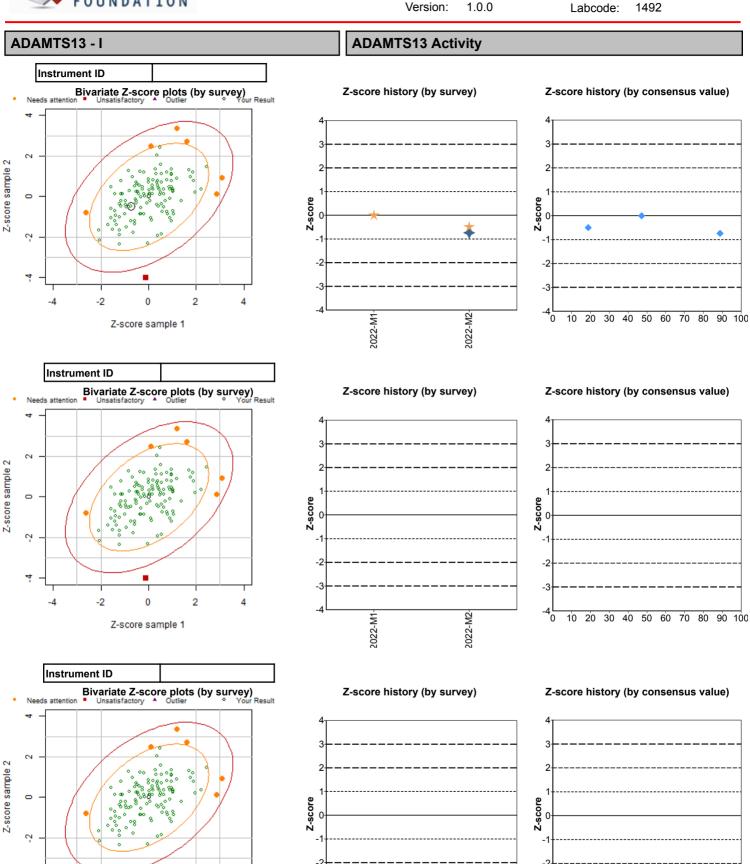
2022-M2-

2022-M1

Z-score sample 1

10 20 30 40 50 60 70 80 90 100

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# **ADAMTS13** antigen

Sample No 22.90

ADAMTS13 - I

**Sample Details** Normal Coagulation Plasma

**Prior Use** None Unit IU/mL

31-December-2029 **Expiry Date** 

Homogeneity 0.0 % **Homogeneity Parameter** Unknown

**Number of Participants** 146

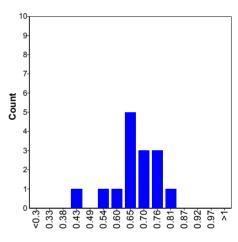
15 10 % **Number of Responders** Response Rate

Comments None

Classification Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classification
Total	15	0	0	0	0

## **Other Reagents**

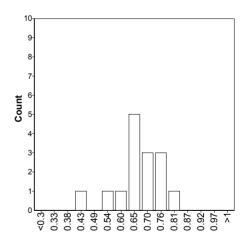
	n	assigned value	Uncert.	CV (%)	Range
Enzyme Immuno Assay	15	0.67	0.03	12.5	0.45 - 0.83
Technozym ADAMTS13 activity/antigen	4	0.62			0.56 - 0.83
Technozym ADAMTS13 antigen	11	0.68	0.02	9.6	0.45 - 0.77



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EIA



Overall



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## ADAMTS13 - I

# ADAMTS13 antigen

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1.0.0

22.91 Sample No

**Sample Details** Plasma with an ADAMTS13 activity level between 10 and 30%

**Prior Use** None Unit IU/mL

**Expiry Date** 31-December-2023

4.3 % **Homogeneity Parameter** ADAMTS13 Homogeneity

> For any method used for the measurement of this parameter with a CV ≤ 14.3% 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** 

**Number of Responders** 

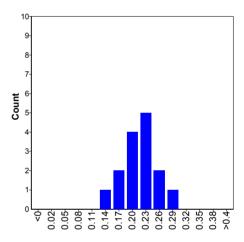
15 10 % Response Rate

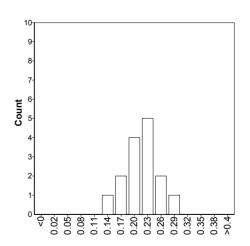
Comments None

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

## **Other Reagents**

	n	assigned value	Uncert.	CV (%)	Range
Enzyme Immuno Assay	15	0.21	0.01	19.8	0.14 - 0.28
Technozym ADAMTS13 activity/antigen	4	0.18			0.14 - 0.24
Technozym ADAMTS13 antigen	11	0.22	0.01	16.3	0.18 - 0.28





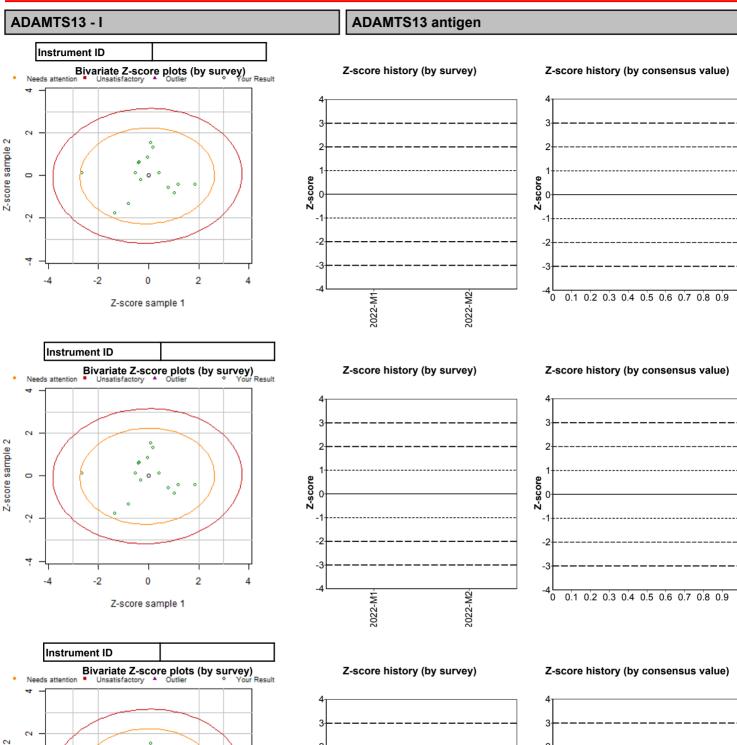
Overall

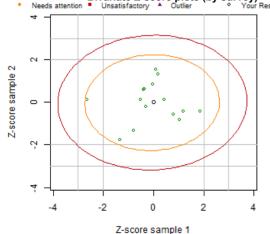


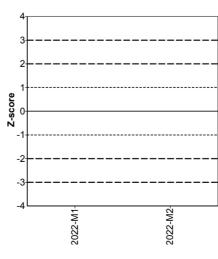
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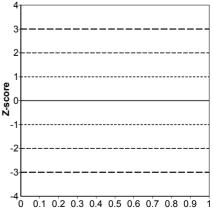
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