ECAT FOUNDATION

External quality Control for Assays and Tests

With a focus on Thrombosis and Haemostasis

REPORT



SURVEY 2023-M4
Main
Labcode 1492

Copyright © 2023 ECAT Foundation



Version:

1.0.0

Survey: 2023-M4 Page 2 of 13

05-januari-2024 Labcode: 1492

Date of Issue : 05-januari-2024

Survey : 2023-M4

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 **March 5th**, **2024**. 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 **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. 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

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

Registration number with the Chamber of Commerce (KvK) Gouda : 41174102

General terms of delivery are applicable to all our services



Survey: 2023-M4

Page 3 of 13 05-januari-2024

Labcode: 1492

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	,	Assay	M	lethod	Analysis
ADAMTS13 - I	ADAMTS13 Activty	23.197	1		-0.41		-0.25		-0.28	
		23.198	1		-0.68		-0.50		-0.45	



Survey: 2023-M4 Page 4 of 13

05-januari-2024 Labcode: 1492

ADAMTS13 - I

ADAMTS13 Activity

Version:

1.0.0

Sample No 23.197

Sample Details Plasma with an ADAMTS13 activity level < 1%

 Prior Use
 2023-M3

 Unit
 % or IU/dL

 Expiry Date
 30-april-2025

Homogeneity 62.6 % Homogeneity Parameter ADAMTS13

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 167

Number of Responders 153 Response Rate 92 %

Comments

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

1508: 9% **1607**: 9.1%

For the most frequently used reagents (n >= 10) the results of sample 23.197 are comparable to

those of sample 23.153 in survey 2023-M3.

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 affect the interlaboratory variation results for this

sample.

Classificatio n Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classificatio
Total	0	0	1	168	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	123	0.5	0.04	82.8	0.0 - 3.0	0.3	-0.41					
CLIA/FIA	71	0.3	0.02	32.7	0.0 - 2.7	0.3	-0.25					
IL Acustar ADAMTS13 activity	65	0.3	0.01	28.0	0.0 - 1.0	0.3	-0.28					



Version: 1.0.0

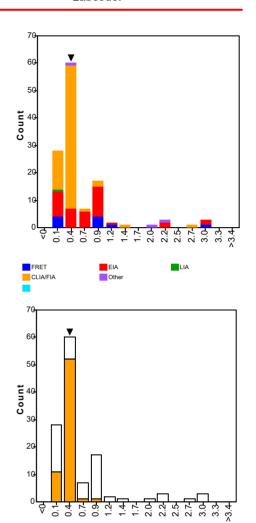
Survey: 2023-M4 Page 5 of 13

05-januari-2024

Labcode: 1492

Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Total Group	123	0.5	0.04	82.8	0.0 - 3.0
FRET	10	0.6	0.27	105.6	0.0 - 3.0
Homemade	2	0.6			0.0 - 1.1
Immucor ADAMTS13 activity	1	0.9			-
Other	6	0.4			0.0 - 1.0
Sekisui Actifluor ADAMTS13 activity	1	3.0			-
Enzyme Immuno Assay	38	0.7	0.11	81.1	0.0 - 3.0
Homemade	1	0.0			-
Technoclone ADAMTS13 acitivity	36	0.7	0.11	75.0	0.0 - 3.0
Technoclone ADAMTS13 activity/antigen	1	0.0			-
Latex Immuno Assay	1	0.0			-
Homemade	1	0.0			-
CLIA/FIA	71	0.3	0.02	32.7	0.0 - 2.7
Technoclone Technofluor ADAMTS13 ac	6	0.5			0.0 - 2.7
Other	3	2.0			0.5 - 2.3
Homemade	2	2.2			2.0 - 2.3
Other	1	0.5			-



IL Acustar
Overall



Survey: 2023-M4

Page 6 of 13 05-januari-2024

Labcode:

Version: 1.0.0

ADAMTS13 - I

ADAMTS13 Activity

Sample No 23.198

Sample Details Plasma with an ADAMTS13 activity level between 5 and 10%

Prior Use None
Unit % or IU/dL

Expiry Date 31-augustus-2025

 $\begin{tabular}{lll} \begin{tabular}{lll} \begin{$

Number of Participants 167

Number of Responders 153 Response Rate 92 %

Comments The following participants reported deviating results which were excluded in the statistical evaluation: **350**: 0.059%

506: 0.059% 506: 0.1% 6212: 0% 9151: 0.9%

Classificatio n Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classificatio
Total	0	1	4	163	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	153	6.6	0.17	25.0	2.0 - 16.8	5.5	-0.68					
CLIA/FIA	77	5.9	0.11	13.3	3.5 - 15.9	5.5	-0.50					
IL Acustar ADAMTS13 activity	70	5.8	0.11	12.2	3.5 - 10.0	5.5	-0.45					



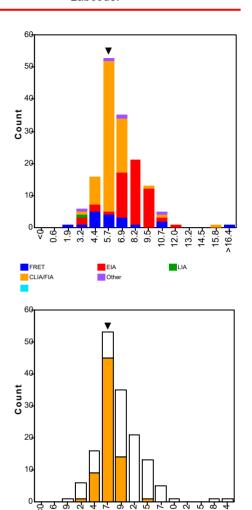
Version: 1.0.0

Survey: 2023-M4 Page 7 of 13 05-januari-2024

Labcode: 1492

Other Reagents

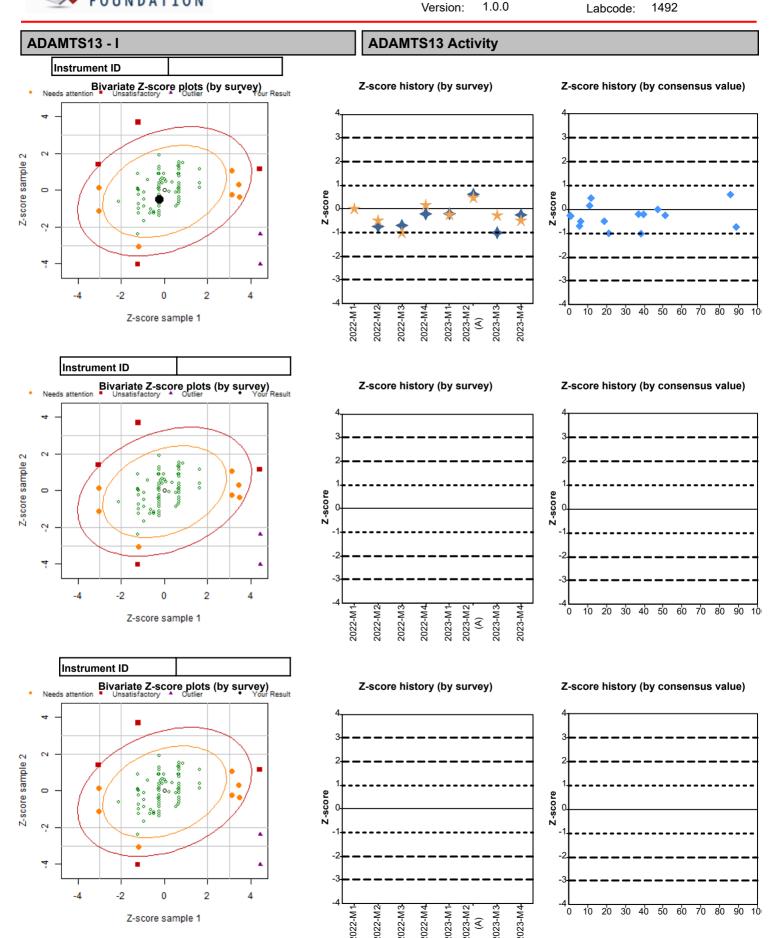
	n	assigned value	Uncert.	CV (%)	Range		
Total Group	153	6.6	0.17	25.0	2.0 - 16.8		
FRET	18	6.2	0.75	40.6	2.0 - 16.8		
Homemade	6	6.5			2.0 - 11.0		
Immucor ADAMTS13 activity	4	9.1			3.7 - 16.8		
Other	7	5.0			4.0 - 6.1		
Sekisui Actifluor ADAMTS13 activity	1	7.0			-		
Enzyme Immuno Assay	53	7.9	0.21	15.4	3.0 - 12.4		
Homemade	1	12			-		
Other	1	9.0			-		
Technoclone ADAMTS13 acitivity	50	7.9	0.20	14.5	3.0 - 10.8		
Technoclone ADAMTS13 activity/antigen	1	3.0			-		
Latex Immuno Assay	1	3.2			-		
Homemade	1	3.2			-		
CLIA/FIA	77	5.9	0.11	13.3	3.5 - 15.9		
Technoclone Technofluor ADAMTS13 ac	7	7.0			5.1 - 15.9		
Other	4	6.6			3.0 - 10.4		
Homemade	2	6.7			3.0 - 10.4		
Other	2	6.6			6.2 - 7.0		



IL Acustar
Overall

1.0.0 Version:

Survey: 2023-M4 Page 8 of 13 05-januari-2024





Survey: 2023-M4

Page 9 of 13 05-januari-2024 Labcode: 1492

ADAMTS13 - I

ADAMTS13 antigen

Version:

1.0.0

Sample No 23.197

Sample Details Plasma with an ADAMTS13 activity level < 1%

 Prior Use
 2023-M3

 Unit
 IU/mL

Expiry Date 30-april-2025

Homogeneity 62.6 % Homogeneity Parameter ADAMTS13

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 167

Number of Responders 19 Response Rate 11 %

Comments

One participant (labcode 1086) selected the wrong unit when submitting the result. This result was

excluded in the statistical evaluation.

For the most frequently used reagents ($n \ge 10$) the results of sample 23.197 are comparable to

those of sample 23.153 in survey 2023-M3.

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 affect the interlaboratory variation results for this

sample.

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



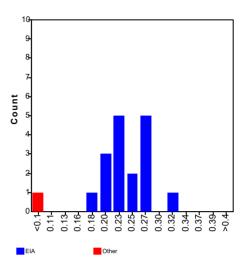
Version: 1.0.0

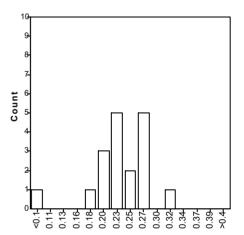
Survey: 2023-M4 Page 10 of 13 05-januari-2024

Labcode: 1492

Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Total Group	18	0.24	0.01	18.0	0.06 - 0.32
Enzyme Immuno Assay	17	0.24	0.01	16.5	0.19 - 0.32
Technozym ADAMTS13 antigen	17	0.24	0.01	16.5	0.19 - 0.32
Other	1	0.06			-
Homemade	1	0.06			-





Overall



Survey: 2023-M4 Page 11 of 13 05-januari-2024

Labcode: 1492

ADAMTS13 - I

ADAMTS13 antigen

Version:

1.0.0

Sample No 23.198

Sample Details Plasma with an ADAMTS13 activity level between 5 and 10%

Prior Use None Unit IU/mL

Expiry Date 31-augustus-2025

Homogeneity 0.0 % Homogeneity Parameter ADAMTS13

Number of Participants 167

Number of Responders 19 Response Rate 11 %

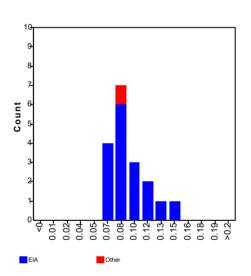
Comments One participant (labcode 1086) selected the wrong unit when submitting the result. This result was

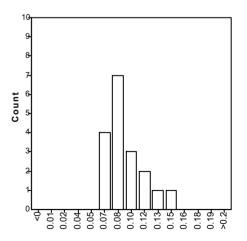
excluded in the statistical evaluation.

Classificatio n Overview	Normal	BorderLine normal	Borderline abnormal	Abnormal	No classificatio
Total	0	0	0	19	0

Other Reagents

	n	assigned value	Uncert.	CV (%)	Range
Total Group	18	0.09	0.01	22.8	0.07 - 0.14
Enzyme Immuno Assay	17	0.09	0.01	23.9	0.07 - 0.14
Technozym ADAMTS13 antigen	17	0.09	0.01	23.9	0.07 - 0.14
Other	1	0.09			-
Homemade	1	0.09			-



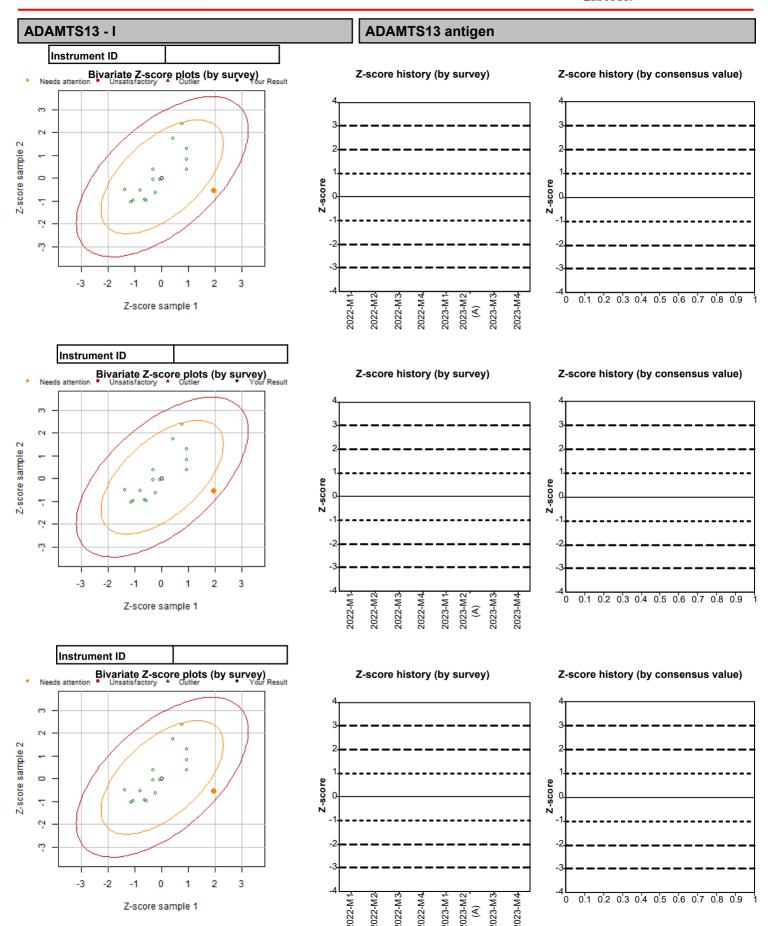


Overall



Version: 1.0.0

Survey: 2023-M4 Page 12 of 13 05-januari-2024 Labcode: 1492





1.0.0 Version:

Survey: 2023-M4 Page 13 of 13 05-januari-2024

Labcode: