ECAT FOUNDATION

External quality Control for Assays and Tests

With a focus on Thrombosis and Haemostasis

REPORT



SURVEY 2020-M1 Main Labcode 99906936

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External quality Control for Assays and Tests With a focus on Thrombosis and Haemostasis

1.0.0

Version:

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| Date of Issue | : | 28-May-2020 |
|---------------|---|-------------|
| Survey | : | 2020-M1 |
| Report | : | Main |

Note:

In the Survey Manual 2020 detailed information is given regarding the ECAT external quality assessment programme, including the statistical evaluation and explanation of the report.

This Survey Manual 2020 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.

Complaints

Any complaints regarding this survey report should be reported to the ECAT before July **8th**, **2020**. 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 two or three times the same results, suggesting that this are separate results. Only results clearly marked with different instruments or different methods are included as additional result. Duplicated results, which are probably <u>no</u> separate results are excluded in 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 from the statistical analysis. When other results (e.g. deviating results) are excluded from 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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Registration number with the Chamber of Commerce (KvK) Gouda : 41174102 General terms of delivery are applicable to all our services.

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| OVERVIEW Z-SCORES | | | | | | | | | | |
|--|---------------------|--------|-------------|-------|--------|--------|--|--|--|--|
| Satisfactory ($-2 \le Z$ -score ≤ 2)Need attention ($-3 \le Z$ -score ≤ -2 or $2 \le Z$ -score ≤ 3)Unsatisfactory (Z-score ≤ -3 or > 3) | | | | | | | | | | |
| Module | Parameter | Sample | Test System | Total | Assay | Method | | | | |
| Factor IX Inhibitor | Factor IX Inhibitor | 20.60 | 1 | -0.0 | 3 0.06 | -0.17 | | | | |
| | | 20.61 | 1 | 0.1 | 0 0.14 | -0.08 | | | | |



Factor IX Inhibitor

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Factor IX Inhibitor

Version:

1.0.0

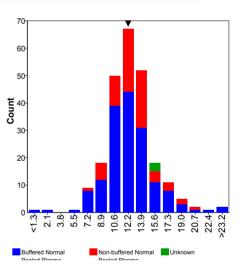
| Sample No | 20.60 | | |
|------------------------|-------------------------|---|--|
| Sample Details | Plasma with a Factor IX | Inhibitor level of approx. 12.5 BU/mL | |
| Prior Use | Prior Use: None | | |
| Unit | Units: | | |
| Expiry Date | 31-October-2022 | | |
| Homogeneity | 5.8 % | Homogeneity Parameter | FIX inhibitor |
| | homogeneity could not b | r the measurement of this parameter with a C be met and the Z-scores should be interprete atistical evaluation in the Survey Manual. | |
| Number of Participants | 266 | | |
| Number of Responders | 231 | Response Rate | 87 % |
| Comments | | ode 9059), reported a result for factor VIII vas excluded in the statistical evaluation. | inhibitor (0.0) instead of a factor IX |

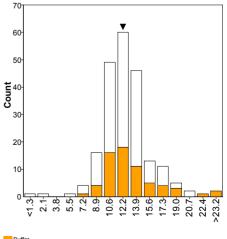
Own Reagent

| <u>Own Reagent</u> | | | | | | | | | | | |
|-------------------------------|-----|-------------------|---------|--------|------------|----------------|---------|----------------|---------|----------------|---------|
| | n | assigned value | Uncert. | CV (%) | Range | your result | z-score | your result | z-score | your result | z-score |
| Total Group | 238 | 12.5 | 0.21 | 20.7 | 0.9 - 30.0 | 12.4 | -0.03 | | | | |
| Buffered Normal Pooled Plasma | 163 | 12.2 | 0.27 | 22.3 | 0.9 - 30.0 | 12.4 | 0.06 | | | | |
| Buffer | 65 | 12.9 | 0.45 | 22.3 | 8.0 - 30.0 | 12.4 | -0.17 | | | | |

Other Reagents

| | n | assigned value | Uncert. | CV (%) | Range |
|-----------------------------------|-----|-------------------|---------|--------|-------------|
| Total Group | 238 | 12.5 | 0.21 | 20.7 | 0.9 - 30.0 |
| Unknown | 3 | 15.7 | | | 15.4 - 16.0 |
| Buffer | 2 | 15.6 | | | 15.4 - 15.7 |
| Factor IX deficient plasma | 1 | 16.0 | | | - |
| Buffered Normal Pooled Plasma | 163 | 12.2 | 0.27 | 22.3 | 0.9 - 30.0 |
| Buffer + Albumin | 15 | 11.2 | 0.88 | 24.3 | 0.9 - 14.6 |
| Factor IX deficient plasma | 65 | 12.3 | 0.41 | 21.5 | 1.5 - 20.6 |
| Heat-inactivated normal plasma | 8 | 12.3 | | | 6.5 - 14.5 |
| Other | 8 | 11.4 | | | 6.5 - 14.4 |
| Unknown | 2 | 10.2 | | | 8.8 - 11.5 |
| Non-buffered Normal Pooled Plasma | 72 | 12.8 | 0.32 | 16.9 | 7.4 - 21.0 |
| Buffer | 42 | 12.7 | 0.29 | 11.7 | 9.1 - 16.8 |
| Buffer + Albumin | 2 | 13.0 | | | 12.9 - 13.2 |
| Factor IX deficient plasma | 15 | 14.2 | 1.43 | 31.3 | 7.4 - 21.0 |
| Heat-inactivated normal plasma | 2 | 15.0 | | | 14.0 - 16.0 |
| Other | 10 | 11.5 | 0.94 | 20.7 | 8.5 - 14.4 |
| Unknown | 1 | 16.0 | | | - |





Buffer



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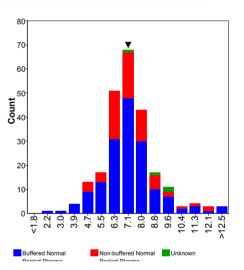
| Factor IX Inhibitor | | Factor IX Inhibitor | |
|------------------------|---|-----------------------|--|
| Sample No | 20.61 | | |
| Sample Details | Plasma with a Factor IX Inhibitor level or | f approx. 7.5 BU/mL | |
| Prior Use | Prior Use: None | | |
| Unit | Units: | | |
| Expiry Date | 31-October-2022 | | |
| Homogeneity | 0.0 % | Homogeneity Parameter | FIX inhibitor |
| Number of Participants | 266 | | |
| Number of Responders | 231 | Response Rate | 87 % |
| Comments | One participant (labcode 9059), repo inhibitor. This result was excluded in | | inhibitor (0.0) instead of a factor IX |

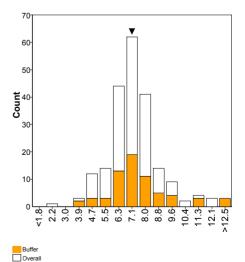
Own Reagent

| <u>e minougent</u> | | | | | | | | | | | |
|-------------------------------|-----|-------------------|---------|--------|------------|----------------|---------|----------------|---------|----------------|---------|
| | n | assigned value | Uncert. | CV (%) | Range | your result | z-score | your result | z-score | your result | z-score |
| Total Group | 239 | 7.2 | 0.11 | 18.7 | 1.9 - 18.0 | 7.3 | 0.10 | | | | |
| Buffered Normal Pooled Plasma | 163 | 7.1 | 0.13 | 18.8 | 1.9 - 18.0 | 7.3 | 0.14 | | | | |
| Buffer | 66 | 7.4 | 0.23 | 20.2 | 4.0 - 18.0 | 7.3 | -0.08 | | | | |

Other Reagents

| | n | assigned value | Uncert. | CV (%) | Range |
|-----------------------------------|-----|-------------------|---------|--------|------------|
| Total Group | 239 | 7.2 | 0.11 | 18.7 | 1.9 - 18.0 |
| Unknown | 4 | 9.4 | | | 7.2 - 10.0 |
| Buffer | 3 | 9.2 | | | 7.2 - 10.0 |
| Factor IX deficient plasma | 1 | 9.6 | | | - |
| Buffered Normal Pooled Plasma | 163 | 7.1 | 0.13 | 18.8 | 1.9 - 18.0 |
| Buffer + Albumin | 14 | 7.3 | 0.28 | 11.6 | 5.5 - 12.3 |
| Factor IX deficient plasma | 65 | 6.9 | 0.20 | 18.7 | 1.9 - 10.2 |
| Heat-inactivated normal plasma | 8 | 6.7 | | | 3.0 - 8.4 |
| Other | 8 | 6.3 | | | 3.5 - 10.3 |
| Unknown | 2 | 6.2 | | | 5.6 - 6.7 |
| Non-buffered Normal Pooled Plasma | 72 | 7.2 | 0.19 | 17.9 | 4.4 - 12.1 |
| Buffer | 42 | 7.2 | 0.25 | 18.3 | 4.4 - 9.5 |
| Buffer + Albumin | 2 | 6.5 | | | 6.2 - 6.7 |
| Factor IX deficient plasma | 15 | 8.3 | 0.82 | 30.3 | 5.5 - 12.1 |
| Heat-inactivated normal plasma | 2 | 7.1 | | | 7.0 - 7.2 |
| Other | 10 | 6.6 | 0.25 | 9.7 | 5.5 - 7.5 |
| Unknown | 1 | 8.0 | | | - |







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Factor IX Inhibitor

Factor IX Inhibitor

