# **ECAT FOUNDATION**

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

With a focus on Thrombosis and Haemostasis

# **REPORT**



SURVEY 2020-L2 Lupus Anticoagulant Labcode 99906936



Version:

1.0.0

Survey: 2020-L2 Page 2 of 14 06-August-2020

Labcode: 99906936

Date of Issue : 06-August-2020

Survey : 2020-L2

Report : Lupus Anticoagulant

#### 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.

#### **General Information**

#### Complaints

Any complaints regarding this survey report should be reported to the ECAT before **September 18th**, **2020**. Complaints received after this date will not be taken into consideration.

#### **Exclusion of results**

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

When other results are excluded from the statistical analysis, these results are placed between brackets.

#### Use of units

We observed several issue of improper use of units during this survey.

#### Lupus Anticoagulant

See comments in the respective sections.

#### **Antiphospholipid Antibodies**

Please be aware of the proper use of units. We have frequently observed the use of different units by participants using the same method, while their results are comparable. Therefore, we merged all different units per method except for CU/mL unit. For now we have corrected the units, when reported an incorrect unit for a certain method group. However it is the responsibility of the participant to use the correct units!

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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Labcode: 99906936

## **Lupus Anticoagulant**

Screening

Version:

1.0.0

Sample No 20.98

Sample Details Plasma weak positive for Lupus Anticoagulant (LA Ratio approx. 1.6)

Prior Use: None
Unit Units: Ratio
Expiry Date 31-January-2022

Homogeneity 1.30 % Homogeneity Parameter LA ratio

Number of Participants 618

 $\begin{array}{ccc} \text{Number of Responders} & 550 & \text{Response Rate} & 89 \ \% \\ \end{array}$ 

Comments

| Assay | Normal | Borderline | Prolonged | No<br>Classification | Your result |             |             |
|-------|--------|------------|-----------|----------------------|-------------|-------------|-------------|
|       |        |            |           |                      | Screening 1 | Screening 2 | Screening 3 |
| APTT  | 1      | 1          | 384       | 2                    | Prolonged   | Prolonged   |             |
| dAPTT | 0      | 0          | 20        | 0                    |             |             |             |
| dPT   | 0      | 0          | 9         | 0                    |             |             |             |
| dRVVT | 2      | 3          | 534       | 9                    |             |             | Prolonged   |
| KCT   | 0      | 0          | 4         | 0                    |             |             |             |
| Other | 0      | 0          | 3         | 0                    |             |             |             |
| PNP   | 0      | 0          | 2         | 0                    |             |             |             |
| PT    | 0      | 0          | 7         | 0                    |             |             |             |
| SCT   | 4      | 0          | 113       | 4                    |             |             |             |

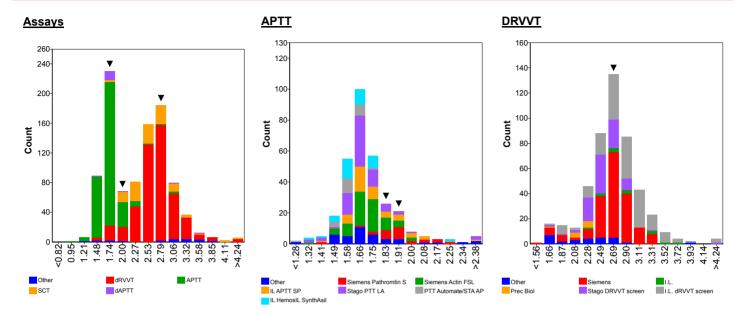
| Ratio                          | n   | assigned<br>value | CV (%) | range       | panel 1 | z-score | panel 2 | z-score | panel 3 | z-score |
|--------------------------------|-----|-------------------|--------|-------------|---------|---------|---------|---------|---------|---------|
| APTT                           | 329 | 1.69              | 8.4    | 0.83 - 3.14 | 1.82    | 0.93    | 1.93    | 1.69    |         |         |
| IL APTT SP                     | 45  | 1.74              | 8.8    | 1.41 - 2.98 |         |         |         |         |         |         |
| IL HemosIL SynthAsil           | 38  | 1.62              | 6.1    | 1.35 - 2.26 |         |         |         |         |         |         |
| IL MixCon                      | 16  | 1.59              | 4.7    | 1.14 - 2.76 |         |         |         |         |         |         |
| Siemens Actin FS               | 8   | 1.61              |        | 1.48 - 1.85 |         |         |         |         |         |         |
| Siemens Actin FSL              | 70  | 1.71              | 6.6    | 1.35 - 2.00 |         |         | 1.93    | 1.93    |         |         |
| Siemens Pathromtin SL          | 25  | 1.91              | 8.3    | 1.37 - 2.22 | 1.82    | -0.53   |         |         |         |         |
| Stago PTT Automate/STA APTT    | 22  | 1.59              | 5.7    | 1.18 - 2.29 |         |         |         |         |         |         |
| Stago PTT LA                   | 73  | 1.67              | 5.4    | 1.29 - 2.51 |         |         |         |         |         |         |
| Stagoe Staclot LA              | 5   | 1.78              |        | 1.48 - 1.91 |         |         |         |         |         |         |
| Tcoag TriniClot Automated APTT | 6   | 1.68              |        | 1.62 - 1.78 |         |         |         |         |         |         |
| dAPTT                          | 16  | 1.74              | 8.2    | 1.53 - 3.53 |         |         |         |         |         |         |
| Stago PTT LA                   | 13  | 1.72              | 5.8    | 1.61 - 1.89 |         |         |         |         |         |         |
| dPT                            | 8   | 3.15              |        | 1.53 - 3.76 |         |         |         |         |         |         |
| dRVVT                          | 484 | 2.68              | 12.6   | 1.47 - 4.69 |         |         |         |         | 2.75    | 0.21    |
| BioMedica Diagnostics DVV test | 5   | 2.25              |        | 1.76 - 2.43 |         |         |         |         |         |         |
| I.L. HemosIL dRVVT screen      | 162 | 2.85              | 13.3   | 1.71 - 4.69 |         |         |         |         |         |         |
| I.L. LAC screen                | 13  | 2.90              | 15.4   | 2.35 - 3.80 |         |         |         |         |         |         |
| Precision Biologic LA check    | 10  | 2.16              | 6.4    | 1.75 - 2.36 |         |         |         |         |         |         |
| Siemens LA1 screen             | 183 | 2.70              | 8.4    | 1.47 - 3.40 |         |         |         |         | 2.75    | 0.23    |
| Stago DRVVT screen             | 88  | 2.52              | 8.9    | 1.63 - 4.49 |         |         |         |         |         |         |
| Technoclone LA Screen          | 6   | 2.61              |        | 2.50 - 2.67 |         |         |         |         |         |         |
| PT                             | 7   | 3.24              |        | 2.81 - 3.65 |         |         |         |         |         |         |
| SCT                            | 112 | 2.57              | 15.5   | 1.68 - 6.65 |         |         |         |         |         |         |
| Haematex SACT Reagent          | 8   | 2.73              |        | 2.43 - 4.43 |         |         |         |         |         |         |
| IL SCT screen                  | 104 | 2.55              | 15.6   | 1.68 - 6.65 |         |         |         |         |         |         |



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#### Comments

Several participants selected the wrong unit; ratio while the result was likely to be in seconds. Therefore all these results were excluded from the statistical analysis.

The vast majority of performed screening tests (> 99%) were classified as (borderline) prolonged.



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## **Lupus Anticoagulant**

**Mixing** 

Version:

1.0.0

Sample No 20.98

Sample Details Plasma weak positive for Lupus Anticoagulant (LA Ratio approx. 1.6)

Prior Use Prior Use: None
Unit Units: Ratio
Expiry Date 31-January-2022

Homogeneity 1.30 % Homogeneity Parameter LA ratio

**Number of Participants** 618

Number of Responders 417 Response Rate 67 %

Comments

| Assay | Normal | Borderline | Prolonged | No<br>Classification |          | Your result |           |
|-------|--------|------------|-----------|----------------------|----------|-------------|-----------|
|       |        |            |           |                      | Mixing 1 | Mixing 2    | Mixing 3  |
| APTT  | 14     | 10         | 274       | 3                    |          | Normal      |           |
| dAPTT | 1      | 0          | 19        | 0                    |          |             |           |
| dPT   | 0      | 0          | 4         | 0                    |          |             |           |
| dRVVT | 15     | 3          | 316       | 5                    |          |             | Prolonged |
| KCT   | 0      | 0          | 3         | 0                    |          |             |           |
| Other | 2      | 0          | 3         | 2                    |          |             |           |
| PT    | 2      | 0          | 2         | 0                    |          |             |           |
| SCT   | 2      | 1          | 61        | 1                    |          |             |           |

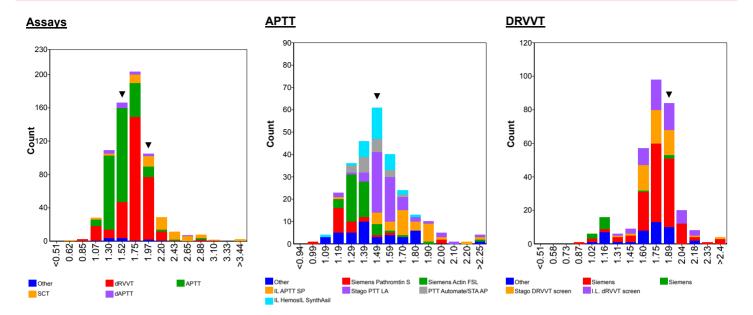
| Ratio                          | n   | assigned<br>value | CV (%) | range       | panel 1 | z-score | panel 2 | z-score | panel 3 | z-score |
|--------------------------------|-----|-------------------|--------|-------------|---------|---------|---------|---------|---------|---------|
| APTT                           | 269 | 1.49              | 13.2   | 1.00 - 2.83 |         |         | 1.46    | -0.14   |         |         |
| IL APTT SP                     | 36  | 1.72              | 10.3   | 1.20 - 2.83 |         |         |         |         |         |         |
| IL HemosIL SynthAsil           | 33  | 1.50              | 6.8    | 1.05 - 1.75 |         |         |         |         |         |         |
| IL MixCon                      | 9   | 1.51              |        | 1.11 - 1.82 |         |         |         |         |         |         |
| Siemens Actin FS               | 7   | 1.22              |        | 1.08 - 1.67 |         |         |         |         |         |         |
| Siemens Actin FSL              | 50  | 1.35              | 6.1    | 1.21 - 2.80 |         |         | 1.46    | 1.35    |         |         |
| Siemens Pathromtin SL          | 23  | 1.29              | 8.9    | 1.00 - 2.01 |         |         |         |         |         |         |
| Stago PTT Automate/STA APTT    | 20  | 1.44              | 7.9    | 1.28 - 1.66 |         |         |         |         |         |         |
| Stago PTT LA                   | 67  | 1.55              | 6.7    | 1.22 - 2.30 |         |         |         |         |         |         |
| Tcoag TriniClot Automated APTT | 6   | 1.43              |        | 1.38 - 1.50 |         |         |         |         |         |         |
| dAPTT                          | 17  | 1.65              | 19.0   | 1.28 - 2.61 |         |         |         |         |         |         |
| Stago PTT LA                   | 12  | 1.68              | 16.6   | 1.33 - 2.02 |         |         |         |         |         |         |
| dRVVT                          | 310 | 1.76              | 10.3   | 0.95 - 3.11 |         |         |         |         | 1.93    | 0.94    |
| I.L. HemosIL dRVVT confirm     | 6   | 1.22              |        | 0.96 - 1.90 |         |         |         |         |         |         |
| I.L. HemosIL dRVVT screen      | 59  | 1.81              | 10.9   | 1.38 - 2.19 |         |         |         |         |         |         |
| I.L. LAC screen                | 7   | 1.88              |        | 1.69 - 2.16 |         |         |         |         |         |         |
| Precision Biologic LA check    | 5   | 1.92              |        | 1.78 - 2.20 |         |         |         |         |         |         |
| Siemens LA1 screen             | 141 | 1.79              | 8.7    | 0.95 - 3.11 |         |         |         |         | 1.93    | 0.92    |
| Siemens LA2 confirmation       | 13  | 1.22              | 19.4   | 1.00 - 1.86 |         |         |         |         |         |         |
| Stago DRVVT screen             | 54  | 1.74              | 7.9    | 1.25 - 2.77 |         |         |         |         |         |         |
| Technoclone LA Screen          | 5   | 1.79              |        | 1.72 - 1.80 |         |         |         |         |         |         |
| SCT                            | 64  | 2.18              | 19.2   | 0.63 - 4.43 |         |         |         |         |         |         |
| Haematex SACT Reagent          | 6   | 2.73              |        | 0.63 - 4.43 |         |         |         |         |         |         |
| IL SCT screen                  | 55  | 2.17              | 15.0   | 1.26 - 3.70 |         |         |         |         |         |         |



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#### Comments

Several participants selected the wrong unit; ratio while the result was likely to be in seconds. Therefore all these results were excluded from the statistical analysis.

The majority of performed mixing tests (approx. 95%) were classified as (borderline) prolonged.



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## **Lupus Anticoagulant**

## Confirmation

Version:

1.0.0

Sample No 20.98

Sample Details Plasma weak positive for Lupus Anticoagulant (LA Ratio approx. 1.6)

Prior Use: None
Unit Units: Ratio
Expiry Date 31-January-2022

Homogeneity 1.30 % Homogeneity Parameter LA ratio

Number of Participants 618

Number of Responders 548 Response Rate 89~%

Comments

| Assay | Positive | Borderline | Negative | No<br>Classification |           | Your result |             |
|-------|----------|------------|----------|----------------------|-----------|-------------|-------------|
|       |          |            |          |                      | Confirm 1 | Confirm 2   | Confirm 3   |
| APTT  | 124      | 9          | 46       | 11                   |           |             |             |
| dAPTT | 16       | 0          | 2        | 0                    |           |             |             |
| dPT   | 3        | 1          | 2        | 1                    |           |             |             |
| dRVVT | 518      | 14         | 20       | 25                   |           |             | LA Positive |
| Other | 8        | 0          | 0        | 0                    |           |             |             |
| PNP   | 1        | 1          | 6        | 2                    |           |             |             |
| PT    | 1        | 0          | 1        | 1                    |           |             |             |
| SCT   | 95       | 7          | 8        | 4                    |           |             |             |

| Ratio                                | n   | assigned<br>value | CV (%) | range       | panel 1 | z-score | panel 2 | z-score | panel 3 | z-score |
|--------------------------------------|-----|-------------------|--------|-------------|---------|---------|---------|---------|---------|---------|
| APTT                                 | 126 | 1.47              | 19.2   | 0.88 - 2.46 |         |         |         |         |         |         |
| IL Hemosil SynthAFax                 | 21  | 1.21              | 8.7    | 1.07 - 1.97 |         |         |         |         |         |         |
| IL MixCon                            | 17  | 1.20              | 16.6   | 0.88 - 1.97 |         |         |         |         |         |         |
| Siemens Actin FS                     | 56  | 1.59              | 6.7    | 1.06 - 1.85 |         |         |         |         |         |         |
| Stago Staclot LA                     | 7   | 1.25              |        | 1.13 - 2.11 |         |         |         |         |         |         |
| Technoclone Lupus Anticoagulant Test | 5   | 1.92              |        | 1.49 - 2.46 |         |         |         |         |         |         |
| dAPTT                                | 8   | 1.55              |        | 1.17 - 1.93 |         |         |         |         |         |         |
| dPT                                  | 6   | 3.00              |        | 1.15 - 3.42 |         |         |         |         |         |         |
| dRVVT                                | 490 | 1.71              | 13.1   | 0.50 - 3.00 |         |         |         |         | 1.66    | -0.24   |
| IL HemosIL dRVVT confirm             | 157 | 1.87              | 10.1   | 1.07 - 2.84 |         |         |         |         |         |         |
| IL HemosIL LAC confirm               | 19  | 1.82              | 9.4    | 1.23 - 2.07 |         |         |         |         |         |         |
| Precision Biologic LA sure           | 9   | 2.00              |        | 0.50 - 2.25 |         |         |         |         |         |         |
| Siemens LA2 confirmation             | 187 | 1.62              | 9.4    | 1.01 - 1.97 |         |         |         |         | 1.66    | 0.25    |
| Stago DRVVT Confirm                  | 87  | 1.62              | 5.9    | 1.09 - 2.29 |         |         |         |         |         |         |
| Technoclone LA Confirm               | 8   | 1.60              |        | 1.13 - 1.82 |         |         |         |         |         |         |
| SCT                                  | 103 | 1.73              | 12.2   | 1.06 - 3.40 |         |         |         |         |         |         |
| IL HemosIL SCT confirm               | 102 | 1.73              | 12.0   | 1.06 - 2.40 |         |         |         |         |         |         |

| Delta Seconds    | n  | assigned<br>value | CV (%) | range       | panel 1 | z-score | panel 2 | z-score | panel 3 | z-score |
|------------------|----|-------------------|--------|-------------|---------|---------|---------|---------|---------|---------|
| APTT             | 37 | 22.9              | 56.8   | 2.0 - 57.4  |         |         |         |         |         |         |
| Stago Staclot LA | 34 | 23.3              | 50.2   | 2.0 - 57.4  |         |         |         |         |         |         |
| dAPTT            | 6  | 21.0              |        | 12.8 - 51.0 |         |         |         |         |         |         |
| Stago Staclot LA | 6  | 21.0              |        | 12.8 - 51.0 |         |         |         |         |         |         |
| PNP              | 7  | 4.1               |        | 0.0 - 16.0  |         |         |         |         |         |         |

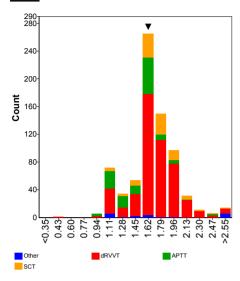


Version: 1.0.0

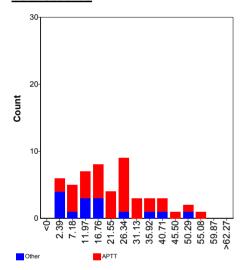
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#### **Ratio**



## **Delta Seconds**



#### Comments

Several participants selected the wrong unit; ratio while the result was likely to be in seconds. Therefore all these results were excluded from the statistical analysis.

The majority of the performed confirmation tests (approx. 90%) were classified as borderline or positive. Approx. 54% of the participants using Siemens Actin FS APTT reagent classified the confirm test as normal. For all other reagents none or < 10% of the participants classified the confirm test as normal.



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Labcode: 99906936

## **Lupus Anticoagulant**

## **Ratio Screening/Confirmation**

1.0.0

Version:

Sample No 20.98

Sample Details Plasma weak positive for Lupus Anticoagulant (LA Ratio approx. 1.6)

Prior Use: None
Unit Units: Ratio
Expiry Date 31-January-2022

Homogeneity 1.30 % Homogeneity Parameter LA ratio

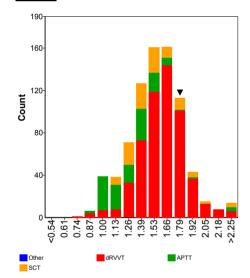
Number of Participants 618

Number of Responders 486 Response Rate 78.64%

Comments

| Ratio Screening/Confirmation | n   | assigned<br>value | CV (%) | range       | panel 1 | z-score | panel 2 | z-score | panel 3 | z-score |
|------------------------------|-----|-------------------|--------|-------------|---------|---------|---------|---------|---------|---------|
| APTT                         | 135 | 1.27              | 19.3   | 0.90 - 3.86 |         |         |         |         |         |         |
| dAPTT                        | 9   | 1.29              |        | 1.02 - 1.80 |         |         |         |         |         |         |
| dRVVT                        | 555 | 1.62              | 13.0   | 0.80 - 2.73 |         |         |         |         | 1.84    | 1.07    |
| Other                        | 5   | 1.32              |        | 0.95 - 1.80 |         |         |         |         |         |         |
| SCT                          | 108 | 1.49              | 16.3   | 1.07 - 3.80 |         |         |         |         |         |         |

#### **Assays**





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Labcode: 99906936

#### **Lupus Anticoagulant**

#### **Final Conclusion**

Version:

1.0.0

| Final Conclusion | Negative | Borderline | Positive | No Conclusion | Your Result |
|------------------|----------|------------|----------|---------------|-------------|
| Total            | 8        | 11         | 440      | 27            | Positive    |

#### Comments

#### Ratio Screen/Confirm

Several participants reported a value for the ratio screen/confirm which actually was not likely to be a ratio screen over confirm. Therefore these results were excluded from the statistical analysis.

#### Final conclusion

The sample used in this survey was plasma from a patient diagnosed with Lupus Anticoagulant (LA dRVVT Ratio = approx. 1.6). No other types of inhibitors were present.

The patient was treated with a Vitamin K Antagonist, resulting in an INR between 3 and 3.5.

No information is available about the use of any other medication.

In total 459 participants reported a final conclusion. Twenty-seven participants did not give a final conclusion. Of the participants who gave a final conclusion, approximately 96% classified the sample as positive. Two percent classified the sample as borderline. Thus, the vast majority of the participants correctly classified this sample as positive.

Several participants stated that there is an indication that this sample is positive for lupus anticoagulant but in real clinical practice this should be confirmed in a new sample after 12 weeks.

Some participants indicated that, because of an INR > 2, normally this samples would not have been tested for Lupus Anticoagulant or that no final conclusion could be drawn because of the elevated INR value. The lupus anticoagulant test should be repeated on a sample with an INR < 1.5.

Some also indicated that the presence of DOACs should be excluded.

Furthermore, some participants reported that an increased CRP level should be ruled out.



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Labcode: 99906936

#### **Lupus Anticoagulant**

## AntiCardiolipin Antibodies IgG

1.0.0

Version:

Sample No 20.98

Sample Details Plasma weak positive for Lupus Anticoagulant (LA Ratio approx. 1.6)

Prior Use Prior Use: None

Unit GPL, U/mL,  $\mu$ g/mL, CU/mL

Expiry Date 31-January-2022

Homogeneity 1.30 % Homogeneity Parameter LA ratio

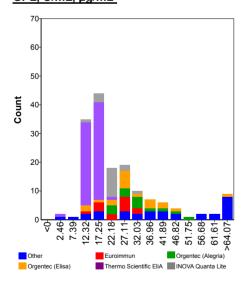
Number of Participants 618

Comments

| Classification | Negative | Borderline | Low Positive | Medium Positive | High Positive | No Conclusion |
|----------------|----------|------------|--------------|-----------------|---------------|---------------|
| Total          | 19       | 25         | 63           | 55              | 72            | 2             |

| IgG                               | n   | assigned<br>value | CV (%) | range        | Your result | z-score |
|-----------------------------------|-----|-------------------|--------|--------------|-------------|---------|
| U/mL, μg/mL, GPL/MPL              | 160 | 22.7              | 48.7   | 3.0 - 271.0  |             |         |
| Aeskulisa Diagnotic GmbH          | 6   | 51.2              |        | 18.9 - 59.2  |             |         |
| Euroimmun                         | 13  | 23.0              | 32.4   | 11.0 - 32.0  |             |         |
| INOVA Quanta Lite                 | 17  | 22.6              | 15.7   | 12.6 - 33.5  |             |         |
| Orgentec (Alegria)                | 14  | 31.1              | 28.5   | 21.0 - 53.0  |             |         |
| Orgentec (Elisa)                  | 19  | 30.3              | 37.2   | 13.5 - 66.0  |             |         |
| Thermo Scientific EliA            | 65  | 14.7              | 15.1   | 3.0 - 21.0   |             |         |
| CU/mL                             | 61  | 125.1             | 10.5   | 20.4 - 172.3 |             |         |
| I.L. Acustar / INOVA Quanta Flash | 61  | 125.1             | 10.5   | 20.4 - 172.3 |             |         |

## GPL, U/mL, μg/mL



#### Comments

Please be aware of the proper use of units. We have frequently observed the use of different units by participants using the same method while their results are comparable. For now we have harmonised the units. However it is the participant's responsibility to use the correct units!

One participant (labcode 1353) reported a result as ratio. This result was excluded in the statistical evaluation.



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Labcode: 99906936

#### **Lupus Anticoagulant**

## **AntiCardiolipin Antibodies IgM**

1.0.0

Version:

Sample No 20.98

Sample Details Plasma weak positive for Lupus Anticoagulant (LA Ratio approx. 1.6)

Prior Use: None

Unit MPL, U/mL,  $\mu$ g/mL, CU/mL

Expiry Date 31-January-2022

Homogeneity 1.30 % Homogeneity Parameter LA ratio

Number of Participants 618 Number of Responders 215

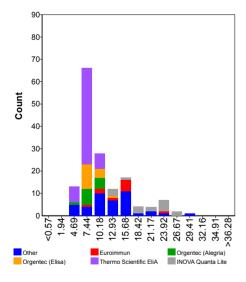
Response Rate 35 %

Comments

| Classification | Negative | Borderline | Low Positive | Medium Positive | High Positive | No Conclusion |
|----------------|----------|------------|--------------|-----------------|---------------|---------------|
| Total          | 148      | 23         | 38           | 2               | 2             | 2             |

| IgM                               | n   | assigned value | CV (%) | range       | Your result | z-score |
|-----------------------------------|-----|----------------|--------|-------------|-------------|---------|
| U/mL, µg/mL, GPL/MPL              | 154 | 10.1           | 43.5   | 3.7 - 29.5  |             |         |
| Aeskulisa Diagnotic GmbH          | 6   | 7.1            |        | 5.2 - 9.6   |             |         |
| Biorad Bioplex                    | 9   | 15.2           |        | 11.2 - 18.0 |             |         |
| Bio-rad EIA                       | 7   | 13.9           |        | 9.0 - 20.4  |             |         |
| Euroimmun                         | 10  | 14.1           | 32.0   | 8.4 - 23.0  |             |         |
| INOVA Quanta Lite                 | 16  | 20.4           | 25.9   | 12.5 - 28.0 |             |         |
| Orgentec (Alegria)                | 13  | 8.3            | 13.9   | 5.9 - 10.2  |             |         |
| Orgentec (Elisa)                  | 16  | 8.6            | 17.9   | 7.0 - 13.0  |             |         |
| Thermo Scientific EliA            | 57  | 7.3            | 14.5   | 3.7 - 9.3   |             |         |
| CU/mL                             | 57  | 15.4           | 12.9   | 8.9 - 21.8  |             |         |
| I.L. Acustar / INOVA Quanta Flash | 57  | 15.4           | 12.9   | 8.9 - 21.8  |             |         |

#### MPL, U/mL, µg/mL



#### Comments

Please be aware of the proper use of units. We have frequently observed the use of different units by participants using the same method while their results are comparable. For now we have harmonised the units. However it is the participant's responsibility to use the correct units!

One participant (labcode 1353) reported a result as ratio. This result was excluded in the statistical evaluation.



Survey: 2020-L2 Page 13 of 14 06-August-2020

Labcode: 99906936

## **Lupus Anticoagulant**

## **ß2-Glycoprotein I Antibodies IgG**

1.0.0

Version:

Sample No 20.98

Sample Details Plasma weak positive for Lupus Anticoagulant (LA Ratio approx. 1.6)

Prior UsePrior Use: NoneUnitU, U/mL,  $\mu$ g/mL, CU/mLExpiry Date31-January-2022

Expiry Date 31-bandary-202

Homogeneity 1.30 % Homogeneity Parameter LA ratio

Number of Participants 618 Number of Responders 210

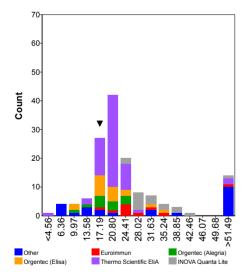
Response Rate 34 %

Comments

| Classification | Negative | Borderline | Low Positive | Medium Positive | High Positive | No Conclusion |
|----------------|----------|------------|--------------|-----------------|---------------|---------------|
| Total          | 7        | 4          | 39           | 64              | 94            | 2             |

| IgG                               | n   | assigned value | CV (%) | range         | Your result | z-score |
|-----------------------------------|-----|----------------|--------|---------------|-------------|---------|
| U, U/mL, µg/mL                    | 141 | 22.5           | 34.3   | 1.5 - 619.6   | 15.5        | -0.90   |
| Aeskulisa Diagnotic GmbH          | 6   | 7.9            |        | 5.9 - 20.0    |             |         |
| Euroimmun                         | 10  | 26.7           | 25.9   | 18.6 - 94.4   |             |         |
| INOVA Quanta Lite                 | 17  | 31.9           | 20.4   | 23.5 - 53.0   |             |         |
| Orgentec (Alegria)                | 12  | 19.2           | 22.7   | 11.6 - 24.4   |             |         |
| Orgentec (Elisa)                  | 18  | 19.0           | 25.4   | 9.0 - 36.0    | 15.5        | -0.73   |
| Thermo Scientific EliA            | 60  | 20.0           | 14.3   | 1.5 - 121.0   |             |         |
| CU/mL                             | 59  | 517.3          | 14.6   | 10.8 - 712.9  |             |         |
| I.L. Acustar / INOVA Quanta Flash | 58  | 519.3          | 14.3   | 355.9 - 712.9 |             |         |

## U, U/mL, µg/mL



## Comments

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Survey: 2020-L2 Page 14 of 14 06-August-2020

LA ratio

Labcode: 99906936

## **Lupus Anticoagulant**

## **ß2-Glycoprotein I Antibodies IgM**

1.0.0

Version:

**Homogeneity Parameter** 

Sample No 20.98

Sample Details Plasma weak positive for Lupus Anticoagulant (LA Ratio approx. 1.6)

Prior UsePrior Use: NoneUnitU, U/mL,  $\mu$ g/mL, CU/mLExpiry Date31-January-2022

Homogeneity 1.30 %

Homogeneity 1.30 % Number of Participants 618

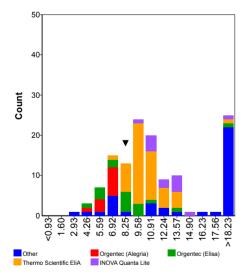
Number of Responders 184 Response Rate 30 %

Comments

| Classification | Negative | Borderline | Low Positive | Medium Positive | High Positive | No Conclusion |
|----------------|----------|------------|--------------|-----------------|---------------|---------------|
| Total          | 82       | 37         | 42           | 18              | 4             | 1             |

| IgM                               | n   | assigned value | CV (%) |             | Your result | z-score |
|-----------------------------------|-----|----------------|--------|-------------|-------------|---------|
| U, U/mL, μg/mL                    | 130 | 11.4           | 43.2   | 3.2 - 92.0  | 8.3         | -0.63   |
| Aeskulisa Diagnotic GmbH          | 6   | 6.1            |        | 3.2 - 11.0  |             |         |
| Biorad Bioplex                    | 7   | 27.6           |        | 23.7 - 35.8 |             |         |
| Euroimmun                         | 9   | 75.3           |        | 11.0 - 92.0 |             |         |
| INOVA Quanta Lite                 | 13  | 12.4           | 15.6   | 10.0 - 18.6 |             |         |
| Orgentec (Alegria)                | 11  | 6.4            | 14.9   | 4.8 - 7.3   |             |         |
| Orgentec (Elisa)                  | 17  | 8.2            | 29.6   | 4.5 - 30.0  | 8.3         | 0.04    |
| Thermo Scientific EliA            | 50  | 10.3           | 14.5   | 7.0 - 19.4  |             |         |
| CU/mL                             | 52  | 11.6           | 13.2   | 8.7 - 16.0  |             |         |
| I.L. Acustar / INOVA Quanta Flash | 52  | 11.6           | 13.2   | 8.7 - 16.0  |             |         |

## U, U/mL, µg/mL



#### Comments

Please be aware of the proper use of units. We have frequently observed the use of different units by participants using the same method while their results are comparable. For now we have harmonised the units. However it is the participant's responsibility to use the correct units!