



DEKS

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Last day of analysis:
09.09.2024

Program coordinators:

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This report contains:

- This letter
- Summary
- Individual results

Approved by GMH
12.09.2024

Next reporting period:

04.11.2024



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Homocysteine, HCY 3034DK EQA report 3/2024

Participants

There are 125 laboratories registered for this scheme. Besides Scandinavian countries we have participants from Austria, Belgium, France, Germany, Greece, Iceland, Italy, Israel, Lithuania, Holland, Poland, Portugal, Spain, Chile, and Great Britain.

DEKS has received 121 results for this report.

Samples

Based on previous tests and the results from this round, the materials are assessed to be homogeneous, stable, and suitable for this EQA program.

Sample no. 05_2024 "Glpl" is a pool of EDTA plasma. This pool has been sent out once before.

See your prior results under History for "Glpl".

Sample no. 06_2024 "Asll" is a pool of EDTA plasma. This pool has been sent out twice before.

See your prior results under History for "Asll".

Statistic

The acceptance range is calculated based on the overall mean, assuming that the results are normally distributed.

In the individual results (graphical part) you will find your own results and deviation (dev.) from the mean (M).

Target value

The target value is calculated as the mean of all.

Outliers

In this round one outlier was found. Outliers are defined as $>SD*3,6$ from the overall mean.

Acceptance interval

The acceptance interval is $\pm 17\%$ ¹.





Results and comments

As in previous rounds Atellica finds higher concentrations than other instruments. Please see study published in report 2/2024 made by DEKS.

If you need help interpreting your report follow this link: <https://deks.dk/en/products/information-about-the-deks-programs/interpretation-of-reports/>

If you have any questions or comments, please contact us.

Kind regards

Gitte Henriksen og Sanne Schou

1) The acceptance interval is calculated based on biological variation from Carmen Ricos TE%. <https://www.westgard.com/biodatabase1.htm>



Component	Mean	Sd	CV	sem	N	Outliers
P- Homocysteinestofk. Sample 'Asll'						
<i>Alle</i>	34,5	5,22	15,14	0,475	121	1
ACL TOP	28,6	1,379	4,83	0,521	7	0
Architect, Alinity	31,8	1,528	4,81	0,239	41	1
Atellica	44,6	3,55	7,94	0,887	16	0
Beckman coulter AU	32,4				1	0
BN	29,9	1,556	5,2	1,1	2	0
Centaur	39,1	2,79	7,14	1,25	5	0
Cobas	35,4	2,57	7,26	0,486	28	0
Dimension Vista	32,5				1	0
HPLC	31,1	3,5	11,28	1,751	4	0
Immulite	33,5	5,23	15,62	3,7	2	0
Indiko Plus	31,6				1	0
LC-MS/MS	33,5	3,54	10,59	1,068	11	0
STA-R Max, Stago	26,6	0,467	1,756	0,33	2	0
P- Homocysteinestofk. Sample 'Gipl'						
<i>Alle</i>	9,93	1,919	19,33	0,1738	122	0
ACL TOP	9,26	0,603	6,52	0,228	7	0
Architect, Alinity	8,83	0,562	6,36	0,0866	42	0
Atellica	13,95	1,925	13,8	0,481	16	0
Beckman coulter AU	10				1	0
BN	8,19	0,58	7,08	0,41	2	0
Centaur	11,29	0,767	6,79	0,343	5	0
Cobas	10,08	0,397	3,94	0,075	28	0
Dimension Vista	9,8				1	0
HPLC	8,56	0,728	8,51	0,364	4	0
Immulite	8,95	0,00707	0,0791	0,005	2	0
Indiko Plus	9,7				1	0
LC-MS/MS	9,25	0,851	9,2	0,257	11	0
STA-R Max, Stago	7,1	0,0283	0,398	0,02	2	0

P- Homocystein(stofk.)		Calibrator: Abbott Alinity i homocysteine Kal - Alinity																																																																																												
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<p>Glpl ('HCY 05_2024')</p> <p>Eget resultat: 9,12 μmol/L (afv. -8,1%) Middelværdi af alle (M): 9,93 μmol/L Acceptinterval (M ± 17%): 8,24 - 11,62 μmol/L</p> <table border="1"> <thead> <tr> <th></th> <th>Middel</th> <th>sd</th> <th>CV%</th> <th>SEM</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>Instrumentgruppe</td> <td>8,83</td> <td>0,56</td> <td>6,4</td> <td>0,1</td> <td>42</td> </tr> <tr> <td>Kalibratorgruppe</td> <td>8,80</td> <td>0,54</td> <td>6,1</td> <td>0,1</td> <td>41</td> </tr> <tr> <td>Alle</td> <td>9,93</td> <td>1,92</td> <td>19,3</td> <td>0,2</td> <td>122</td> </tr> </tbody> </table>			Middel	sd	CV%	SEM	N	Instrumentgruppe	8,83	0,56	6,4	0,1	42	Kalibratorgruppe	8,80	0,54	6,1	0,1	41	Alle	9,93	1,92	19,3	0,2	122	<p>Asll ('HCY 06_2024')</p> <p>Eget resultat: 32,16 μmol/L (afv. -6,7%) Middelværdi af alle (M): 34,5 μmol/L Acceptinterval (M ± 17%): 28,6 - 40,3 μmol/L</p> <table border="1"> <thead> <tr> <th></th> <th>Middel</th> <th>sd</th> <th>CV%</th> <th>SEM</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>Instrumentgruppe</td> <td>31,8</td> <td>1,53</td> <td>4,8</td> <td>0,2</td> <td>41</td> </tr> <tr> <td>Kalibratorgruppe</td> <td>31,7</td> <td>1,53</td> <td>4,8</td> <td>0,2</td> <td>40</td> </tr> <tr> <td>Alle</td> <td>34,5</td> <td>5,22</td> <td>15,1</td> <td>0,5</td> <td>121</td> </tr> </tbody> </table>			Middel	sd	CV%	SEM	N	Instrumentgruppe	31,8	1,53	4,8	0,2	41	Kalibratorgruppe	31,7	1,53	4,8	0,2	40	Alle	34,5	5,22	15,1	0,5	121																																											
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