



DEKS

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Last day of analysis:
20.11.2023

Program coordinators:

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This report contains:

- This letter
- Summary
- Individual results

Approved by GMH
22.11.2023

Next reporting period:

04.03.2024
03.06.2024
26.08.2024
04.11.2024



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Methylmalonic Acid 3033 DK EQA rapport 4/ 2023

Number of participants

There are 42 laboratories registered for this scheme. Most of the participants are from the Scandinavian countries and 7 laboratories are from other countries. DEKS has received 40 results for this report.

Sample material

Sample no. 07_2023 "Hch" is a pool of serum. This pool has been measured 3 times before.

Sample no. 08_2023 "Gtnl" is a pool of serum. This pool has not been measured before.

Statistics

In the 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.

Acceptance

The acceptance interval is $\pm 21\%$. The acceptance interval is calculated based on biological variation¹.

Results and comments

In this round no outlier was found. Outliers are defined as $>SD*3,6$ from the overall mean.

Kind regards

Gitte Henriksen og Sanne Schou

1) Moeller J, Rasmussen K, Christensen L. External quality assessment of methylmalonic acid and total homocysteine. Clin Chem 1999;45:9:1536-152.



Component	Mean	Sd	CV	sem	N	Outliers
P-Methylmalonat; stofk. Sample 'Hch'						
<i>Alle</i>	1,338	0,1183	8,85	0,01871	40	0
GC-MS	1,29	0,0603	4,67	0,0348	3	0
LC-MS/MS derivatized	1,35	0,1169	8,66	0,0413	8	0
LC-MS/MS underivatized	1,339	0,1247	9,31	0,0232	29	0
P-Methylmalonat; stofk. Sample 'Gtnl'						
<i>Alle</i>	0,334	0,0362	10,85	0,00573	40	0
GC-MS	0,318	0,0584	18,34	0,0337	3	0
LC-MS/MS derivatized	0,319	0,0409	12,81	0,01446	8	0
LC-MS/MS underivatized	0,34	0,0323	9,52	0,006	29	0

P-Methylmalonat; stofk. - Methodgroup: LC-MS/MS underivatized		Methodname: Liquid Chromatography - Mass Spectrometry (LC-MS/MS), underivatized Calibrator: Chromsystems																																																																																												
<p>Hch ('MMA 07_2023')</p> <p>Own result: 1,37 µmol/L (dev. 2,4%) Mean of all (M): 1,338 µmol/L Acceptance interval (M ± 21%): 1,057 - 1,619 µmol/L</p> <table border="1"> <thead> <tr> <th>Method group</th> <th>Mean</th> <th>sd</th> <th>CV%</th> <th>SEM</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>1,338</td> <td>0,12</td> <td>9,3</td> <td>0,0</td> <td>29</td> </tr> </tbody> </table>		Method group	Mean	sd	CV%	SEM	N	All	1,338	0,12	9,3	0,0	29	<p>Gtnl ('MMA 08_2023')</p> <p>Own result: 0,314 µmol/L (dev. -6,0%) Mean of all (M): 0,334 µmol/L Acceptance interval (M ± 21%): 0,264 - 0,404 µmol/L</p> <table border="1"> <thead> <tr> <th>Method group</th> <th>Mean</th> <th>sd</th> <th>CV%</th> <th>SEM</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>0,340</td> <td>0,03</td> <td>9,5</td> <td>0,0</td> <td>29</td> </tr> <tr> <td>All</td> <td>0,334</td> <td>0,04</td> <td>10,8</td> <td>0,0</td> <td>40</td> </tr> </tbody> </table>		Method group	Mean	sd	CV%	SEM	N	All	0,340	0,03	9,5	0,0	29	All	0,334	0,04	10,8	0,0	40																																																													
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