Methylmalonic Acid 3033 DK
EQA rapport 4/ 2024

DEKS

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Last day of analysis:
18.11.2024

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This report contains:
- This letter
- Summary
- Individual results

Approved by GMH
27.11.2024

Next reporting period:

03.03.2025
02.06.2025
25.08.2025
03.08.2025

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 42 results for this report.

Sample material

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. 07_2024 “Hjdb” is a pool of serum.
This pool has been measured once before.

Sample no. 08_2024 “Hch” is a pool of serum.
This pool has been measured 4 times before.

Statistics

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

Outliers

In this round 2 outlies were found. Outliers are defined as >SD*3,6 from the overall mean.

Acceptance interval

The acceptance interval is ± 21 %. The acceptance interval is calculated based on biological variation1.

Kind regards
Gitte Henriksen og Sanne Schou

1) Moeller J, Rasmussen K, Christensen L. External quality assessment of methylmalonic acid and total homocysteine. Clin Chem1999;45:9:1536-152.

DANAK
PT Reg.No. 591
Member of EA MLA

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Component	Mean	Sd	CV	sem	N	Outliers
P- Methylmalonatstofk. Sample 'Hch'						
Alle	1,337	0,0945	7,07	0,01495	40	2
GC-MS	1,347	0,0384	2,85	0,0222	3	0
LC-MS/MS derivatized	1,326	0,0866	6,53	0,0306	8	0
LC-MS/MS underivatized	1,339	0,1021	7,63	0,01896	29	2
P- Methylmalonatstofk. Sample 'Hjdb'						
Alle	0,654	0,0763	11,67	0,01177	42	0
GC-MS	0,659	0,037	5,61	0,0213	3	0
LC-MS/MS derivatized	0,649	0,1202	18,52	0,0425	8	0
LC-MS/MS underivatized	0,654	0,067	10,24	0,01203	31	0

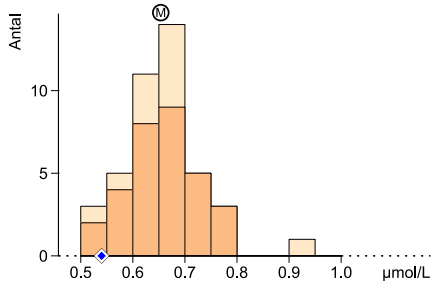
3033 DK - Methylmalonat - EKSEMPEL RAPPORT

Udsendelse 4 - 2024. Laboratorie nr. 500, resultat id. 500

P- Methylmalonat{stofk.} -
Methodgroup: LC-MS/MS underivatized

Methodname: Liquid Chromatography - Mass Spectrometry (LC-MS/MS), underivatized
Calibrator: In-house

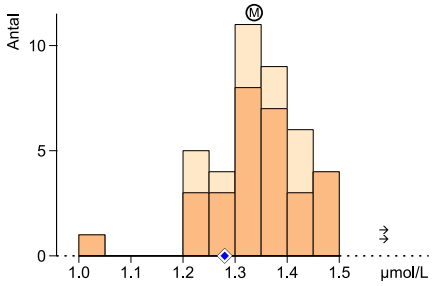
Hjdb ('07_2024')



Eget resultat: 0,54 µmol/L (afv. -17,4%)
Middelværdi af alle (M): 0,654 µmol/L
Acceptinterval (M ± 21%): 0,516 - 0,791 µmol/L

	Middel	sd	CV%	SEM	N
Metodegruppe	0,654	0,07	10,2	0,0	31
Alle	0,654	0,08	11,7	0,0	42

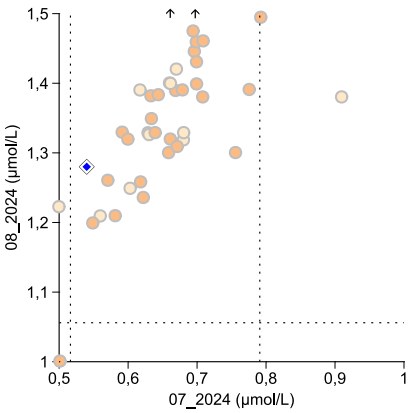
Hch ('08_2024')



Eget resultat: 1,28 µmol/L (afv. -4,2%)
Middelværdi af alle (M): 1,337 µmol/L
Acceptinterval (M ± 21%): 1,056 - 1,617 µmol/L

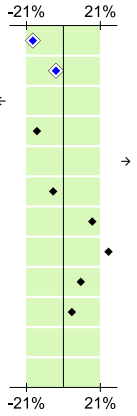
	Middel	sd	CV%	SEM	N
Metodegruppe	1,339	0,10	7,6	0,0	29
Alle	1,337	0,09	7,1	0,0	40

Youdenplot

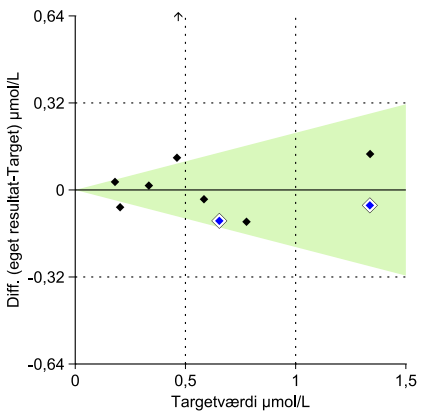


Historik

Uds.	Materiale	Target	Eget	%dif
24/04	Hjdb	0,6537	0,54	-17,4
24/04	Hch	1,3367	1,28	-4,2
24/03	Gmr	0,2036	0,14	-31,2
24/03	Hhbb	0,7770	0,66	-15,1
24/02	Ekql	0,4675	1,21	158,8
24/02	Gqt	0,5841	0,55	-5,8
24/01	Grll	0,1804	0,21	16,4
24/01	Iqt	0,4616	0,58	25,7
23/04	Hch	1,3379	1,47	9,9
23/04	Gtnl	0,3340	0,35	4,8
23/03	Hgj			
23/03	Grll			

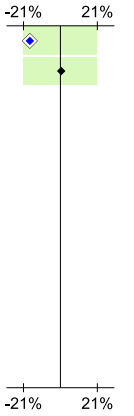


Differensplot



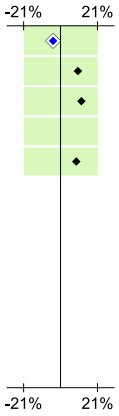
Historik for Hjdb

Uds.	Target	Eget	%dif
24/04	0,654	0,54	-17,4
23/01	0,667	0,67	0,5



Historik for Hch

Uds.	Target	Eget	%dif
24/04	1,337	1,28	-4,2
23/04	1,338	1,47	9,9
22/03	1,377	1,54	11,8
21/03			
20/04	1,404	1,53	9,0



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