Methylmalonate
EQA report 4/2025

Program no.:	Analysis period:	Deadline for reporting:	Published
3033 DK	03.11.2025 – 17.11.2025	17.11.2025	27.11.2025

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 41 results for this report.

EQA material

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

Sample no. 07_2025 “Gtnl” is a pool of serum. This pool has been measured 2 times before.

Sample no. 08_2025 “Ekql” is a pool of serum. This pool has been measured once before.

Statistics

The acceptance range is calculated based on the overall mean, assuming that the results are normally distributed. For each component, it is assessed whether the results follow a normal distribution. This is done by comparing the mean and the median. The difference between them must not exceed a predefined percentage of the acceptance interval**.**

Target values

The target values are calculated as the mean of all.

Outliers

Outliers are defined as a result, which is more than 3,6 SD from the target value.
The number of outliers is indicated in the last column of the *Summary*.

Acceptance interval

The acceptance interval is ± 17,3 %. The acceptance interval is calculated based on biological variation (1)

Results and comments

Methylmalonic Acid

No Comment

Interpretation of report

You can see instructions for interpreting the report here:
deks.dk/en/products/information-about-the-deks-programs/interpretation-of-reports/

Next round/rounds

Round 01: 09.03.2026 – 23.03.2026
Round 02: 01.06.2026 – 15.06.2026
Round 03: 24.08.2026 – 07.09.2026
Round 04: 02.11.2026 – 16.11.2026

Kind regards
Gitte Henriksen og Sanne Schou

References

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

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Approved by
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25.11.2025

Component	Mean	Sd	CV	sem	N	Outliers
P- Methylmalonatstofk. Sample 'Gtnl'						
Alle	0,323	0,0426	13,18	0,00665	41	0
GC-MS	0,292	0,1676	57,5	0,1185	2	0
LC-MS/MS derivatized	0,323	0,0228	7,06	0,00806	8	0
LC-MS/MS underivatized	0,325	0,0359	11,05	0,00645	31	0
P- Methylmalonatstofk. Sample 'Ekql'						
Alle	0,458	0,0484	10,55	0,00755	41	0
GC-MS	0,449	0,1146	25,5	0,081	2	0
LC-MS/MS derivatized	0,452	0,0325	7,2	0,01149	8	0
LC-MS/MS underivatized	0,461	0,0491	10,66	0,00882	31	0

3033 DK - Methylmalonat - EKSEMPEL RAPPORT

Udsendelse 4 - 2025. Laboratorie nr. 500, resultat id. 500

P- Holo-Transcobalamin II(Aktiv B12, Holo TC)
Methodgroup: Alinity

Methodname: Chemiluminescent microparticle immunoassay (CMIA)
Calibrator: Active-B12 (Holotranscobalamin) Calibrators

Der er ikke nok valide resultater til grafen.

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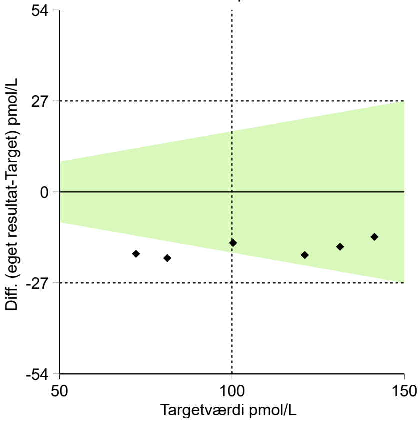
Historik

Uds.	Materiale	Target	Eget	%dif
25/04	Gtnl			
25/04	Ekql			
25/03	Gqt	81,2	61,6	-24,2
25/03	Hhbb	100,3	85,2	-15,1
25/02	Iqt	72,2	53,8	-25,5
25/02	Hchb	141,3	>128	-9,4
25/01	Gtnl	131,4	115,1	-12,4
25/01	Gmrl	121,1	102,4	-15,5

-18% 18%

Differensplot



Historik for Gtnl

Uds.	Target	Eget	%dif
25/04			
25/01	131,4	115,1	-12,4

-18% 18%

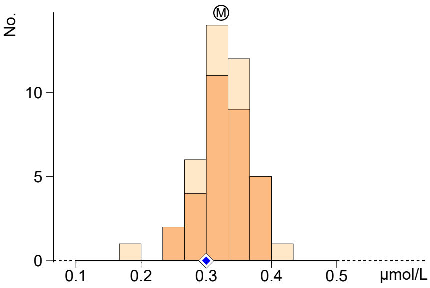
Der er ikke nok valide resultater til grafen.

3033 DK - Methylmalonat - EKSEMPEL RAPPORT

Udsendelse 4 - 2025. 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

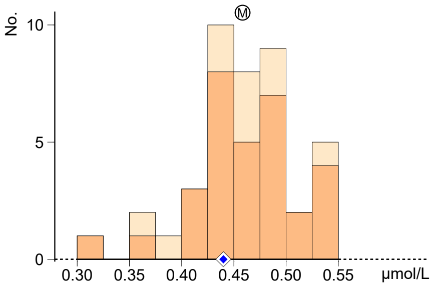
Gtnl ('07_2025')



Own result: 0,30 µmol/L (dev. -7,1%)
Mean of all (M): 0,323 µmol/L
Acceptance interval (M ± 17,3%): 0,267 - 0,379 µmol/L

	Mean	sd	CV%	SEM	N
Method group	0,325	0,04	11,1	0,0	31
All	0,323	0,04	13,2	0,0	41

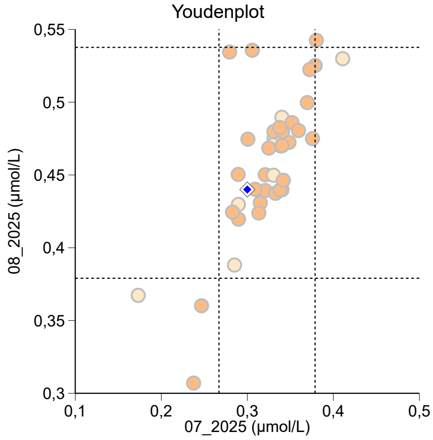
Ekql ('08_2025')



Own result: 0,44 µmol/L (dev. -4,0%)
Mean of all (M): 0,458 µmol/L
Acceptance interval (M ± 17,3%): 0,379 - 0,538 µmol/L

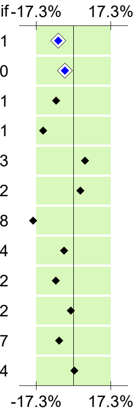
	Mean	sd	CV%	SEM	N
Method group	0,461	0,05	10,7	0,0	31
All	0,458	0,05	10,6	0,0	41

Youdenplot

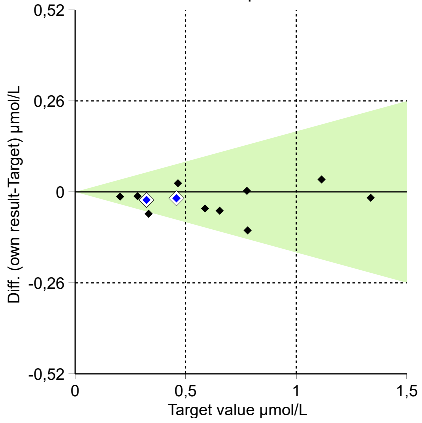


History

Round	Material	Target	Own	%dif
25/04	Gtnl	0,323	0,30	-7,1
25/04	Ekql	0,458	0,44	-4,0
25/03	Gqt	0,587	0,54	-8,1
25/03	Hhbb	0,780	0,67	-14,1
25/02	Iqt	0,465	0,49	5,3
25/02	Hchb	1,115	1,15	3,2
25/01	Gtnl	0,332	0,27	-18,8
25/01	Gmrl	0,282	0,27	-4,4
24/04	Hjdb	0,654	0,60	-8,2
24/04	Hch	1,337	1,32	-1,2
24/03	Gmr	0,204	0,19	-6,7
24/03	Hhbb	0,777	0,78	0,4

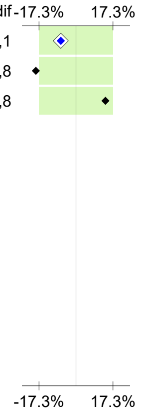


Difference plot



History for Gtnl

Round	Target	Own	%dif
25/04	0,323	0,30	-7,1
25/01	0,332	0,27	-18,8
23/04	0,334	0,38	13,8



History for Ekql

Round	Target	Own	%dif
25/04	0,458	0,44	-4,0
24/02	0,468	0,44	-5,9