

Certificate of Analysis QCS Organic Acids

Product name Quality comparison material Organic Acids

Product code	Product code	Colour cap
	ORG-02.1	Green
	ORG-02.2	Red

Date of issue 6 July 2026

Batch numbers and Expiry date	Batch number	Exp. date stored at +2°C to +8°C
	LOT 2026.1641	 2031-06
	LOT 2026.1642	 2031-06

Reconstitution volume 5.0 mL

Estimated concentrations *

Analyte	Estimated concentrations (µmol/L)	
	Level 1	Level 2
2 Methylcitric acid	2.16	42.9
2 OH Glutaric acid	32.0	307
3 Methylglutaconic acid	15.3	92.2
3 Methylglutaric acid	6.62	47.7
3OH3 Methylglutaric acid	38.4	325
3 OH Glutaric acid	6.93	32.6
3 OH Isovaleric acid	14.7	52.3
4 OH Butyric acid	22.0	199
Adipic acid	18.5	296
Creatinine	3600	6700
Ethylmalonic acid	14.5	209
Fumaric acid	5.62	186
Glutaric acid	14.6	227
Hexanoylglycine	3.87	37.4
Isovalerylglycine	5.22	40.3
Keto glutaric acid	34.0	488
Methylmalonic acid	15.8	246
Mevalonic acid	9.84	130
N acetylaspartic acid	20.2	448
Pyroglutamic acid	112	578
Sebacid acid	8.42	88.3
Suberic acid	12.2	171
Tiglylglycine	12.4	59.3
Vanillacitic acid	13.4	119

* See ERNDIM Quality Comparison System at the reverse

Intended purpose

Not for diagnostic use.

This material is intended solely for the verification of the correct calibration of measurement methods. It is not permitted to use this material (without CE mark) in establishing or assessing patient/client results.

Disclaimer

It is the responsibility of the customer to limit the use of this material to the intended use described above.

Streekziekenhuis Koningin Beatrix (department MCA laboratory) is not responsible or liable for application outside the intended use.

Contents

Lyophilized human urine to which organic acids have been added to achieve an analytically and physiologically relevant level of the organic acids.

Storage and stability

The product in lyophilized form is stable for 5 years when stored at +2°C to + 8°C. The expiration date is listed above. The stability of the reconstituted product is comparable to patient samples.

Instructions for use

- a. Remove cap.
- b. Insert a hollow needle through the stopper to remove the vacuum (to prevent material getting on the stopper)
- c. Remove stopper.
- d. Add 5.0 mL aqua destillata
- e. Replace stopper
- f. Let stand for 15 minutes at room temperature
- g. Mix carefully during 20 minutes at room temperature
- h. Process product as patient sample

ERNDIM Quality Comparison System: the Concept

The ERNDIM Quality Comparison System (QCS) consists of samples and a website for data management.

Samples

Samples contain analytes specifically selected for laboratories active in the field of inborn errors of metabolism. They come in two levels (1=low and 2=high) with for each analyte a relevant concentration.

Data Management

ERNDIM offers users of these materials a data management system (Note: this is an option to serve users; users do not have the obligation to use it). The strength of this system is that it does not only monitor the data of the laboratory but also compares the labs results with results of labs using the same batch of internal comparison materials.

In essence users can submit results every time they do an analytical run with the comparison material and then download two reports.

The Review Day Report shows the results of the last run in comparison to

- a) the acceptance limits set by the lab,
- b) the mean of all previous runs of the lab
- c) the mean of all laboratories.

By clicking on the name of a specific analyte in the report, Shewhart charts of that analyte are shown.

The Cumulative Table report shows the cumulative data of the lab.

Details can be found under [www.erndimqa.nl/General information/Use Website](http://www.erndimqa.nl/General%20information/Use%20Website).

Remark

On delivery of the materials, the certificate in the package insert shows the values (estimated concentrations) as measured by a peer laboratory. Once in use laboratories submit their results and the reports will show the trimmed mean of all laboratories. This mean is a running mean which changes with every new submission: Thus a dynamic assigned value resulting from "crowd targeting".

Precautions and warnings

1. For *in vitro* use only.
2. This product should be handled with care, as appropriate for biological materials. Outdated and left-over material should be discarded as potentially infectious material, according to the procedures in your institute.

References

www.ERNDIMQA.nl