


# Product certificate Organic Acids

**Product name** Control Organic Acids

<b>Product code</b>	Product code	Colour cap
	ORG-01	Blue

**Date of issue** 05-12-2017

<b>Batch numbers and Expiry date</b>	Batch number	Exp. date stored at +2°C to +8°C
	<b>LOT</b> 2017.007	 <b>2021-09</b>

**Reconstitution volume** 10.0 mL

<b>Calculated Consensus Values</b>	<b>Analyte</b>	<b>Calculated Consensus Value (µmol/L) *</b>	<b>95% Confidence Interval *</b>	<b>Expected Range results in Laboratory *</b>
	2 methylcitric acid	8.65	7.1 - 10	2.7 - 15
	2-OH-Glutaric acid	155	146 - 164	113 - 197
	3 methylglutaconic acid	27.8	26 - 30	19 - 37
	3 methylglutaric acid	39.4	38 - 41	31 - 48
	3-OH-3 methylglutaric acid	76.1	67 - 85	38 - 114
	3-OH-Glutaric acids	4.04	2.8 - 5.3	0 - 9.3
	3-OH-Isovaleric acid	45.1	40 - 50	22 - 68
	4-OH-Butyric acid	71.1	62 - 81	31 - 111
	Adipic Acid	79.9	76 - 84	62 - 98
	D,L-Glyceric acid	122	111 - 133	73 - 171
	Ethylmalonic acid	35.6	34 - 38	26 - 45
	Fumaric acid	59.5	55 - 64	38 - 81
	Glutaric acid	110	106 - 114	89 - 131
	Glycolic acid	241	224 - 258	166 - 316
	Hexanoylglycine	17.5	16 - 19	11 - 24
	Keto-glutaric acid	194	168 - 220	75 - 313
	Methylmalonic acid	152	146 - 158	118 - 186
	Mevalonic acid	64.5	56 - 73	29 - 100
	N-acetylaspartic acid	59.5	52 - 67	28 - 91
	Pyroglutamic acid	324	296 - 352	196 - 452
	Sebacid Acid	56.3	53 - 60	38 - 75
	Suberic acid	72.9	69 - 77	54 - 92
	Tiglylglycine	87.3	79 - 95	55 - 119
	Vanillactic acid	23.1	21 - 25	17 - 30

\* See Value Assignment and Ranges at the reverse



## Organic Acids

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### Intended purpose

These materials are control materials (thus no calibrators) for the control of analytical systems for the determination of organic acids in urine.

### Contents

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

### Value Assignment and Ranges

The specimens are prepared from equal amounts of the specimen pools used to manufacture the ERNDIM External Quality Assessment Scheme samples. The assigned values represent the average of the mean consensus concentrations of the 4 pools equal to the concentrations in the annual report (see reverse of this product certificate). The column with the 95% Confidence Interval shows the confidence interval of the assigned value (narrow range). The column with the expected range shows the range in which results of 70% of individual laboratories can be expected (wide range).

### Storage and stability

The product in lyophilized form is stable for 5 years when stored at +2°C to + 8°C. Expiration dates are found on the product certificate (reverse). The stability of the reconstituted product is 48 hours when handled appropriately: pure water, replacement of stopper and storage at 2-8 °C.

### Instructions for use

- a. Remove cap and stopper
- b. Add 10 mL aqua destillata
- c. Replace stopper
- d. Let stand for 15 minutes at room temperature
- e. Mix carefully during 20 minutes at room temperature
- f. Process product as patient sample

### Precautions and warnings

1. For *in vitro* diagnostic 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](http://www.ERNDIMQA.nl)

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