

ORGANIC ACIDS SEMIQUANT

Lyophilized solution of Organic Acids in synthetic urine for the semi-quantitative determination in mass spectrometry

TEST SUMMARY

Organic Acids Semiquant is a lyophilized mixture of organic acids supplied in a kit of 10 vials. Each vial of lyophilized mixture must be reconstituted with 2.2 ml of distilled water before use.

The concentrations of the components must refer to each single batch. The exact theoretical values are contained in the attached sheets.

STORAGE AND STABILITY

Store the close product at 2-8°C, stable until the expiration date indicated on the package.

Once reconstituted use within 1 hour.

REQUIRED MATERIALS NOT PROVIDED

Automatic micropipette, general laboratory equipment, deionized or distilled water.

REAGENT PREPARATION

Carefully open a bottle of lyophilisate, avoiding loss of material and pipette exactly 2.2 ml of distilled water inside, preferably using an automatic micropipette. Close and shake by inversion until complete solubilization.

PRECAUTIONS

- The product contains 0.095% sodium azide as a preservative.
- Avoid contact with skin and mucous membranes.
- Use the normal precautions required for each laboratory material.
- For exclusive in vitro diagnostic use.

WASTE DISPOSAL

The product is intended for use within professional analysis laboratories. For correct waste disposal, refer to the legislation in force and to the safety information sheets. All human specimens must be treated and disposed of according to local guidelines.

PACKAGING

CODE SN00900

Organic Acid Solution 10 x 2.2 ml (lyophilized)

BIBLIOGRAPHY

Archive data.

MANUFACTURER

LTA s.r.l.
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SYMBOLS

 IVD	Only for IVD use		Expiration date
 LOT	Lot of manufacturing		Warning, read enclosed documents
 REF	Code number		Read the directions
	Storage temperature interval		Biological risk

Mod. 01.06 (ver. 1.0 - 23/01/2020)



Composizione Acidi organici / Organic acids composition
LOT B111.23* 2025/04

COMPONENTE / COMPONENT	Concentrazione / Concentration (mM)	Concentrazione / Concentration (mg/L)
Lattico / Lactic	0.278	25.04
Piruvico / Pyruvic	0.909	100.03
3-idrossibutirrico / 3-hydroxybutyric acid	0.198	20.61
3-idrossiisovalerico / 3-hydroxyisovaleric	0.212	25.04
Metil-malonico / Methylmalonic	0.847	100.06
Etil-malonico / Ethylmalonic	0.189	24.97
Metil-succinico / Methylsuccinic	0.189	24.97
Fumarico / Fumaric	0.215	24.96
Glutarico / Glutaric	0.189	24.97
2-idrossiglutarico / 2-hydroxyglutaric	0.130	24.97
3-metilglutarico / 3-methylglutaric	0.086	12.56
Adipico / Adipic	0.684	100.00
Suberico / Suberic	0.144	25.08
Sebacico / Sebacic	0.124	25.08
3-idrossi-3-metilglutarico / 3-hydroxy-3-methylglutaric	0.154	24.96
4-idrossifenillattico / 4-hydroxyphenillactic	0.137	24.96
Succinico / Succinic	0.847	100.03
2-ketoglutarico / 2-ketoglutaric	0.526	100.01
4-idrossifenilacetico / 4-hydroxyphenylacetic	0.657	99.99
4-idrossifenilpiruvico / 4-hydroxyphenylpyruvic	0.139	25.05
Piroglutamico / Pyroglutamic	0.194	25.05
Glicolico / Glycolic	2.630	200.01
Citrico / Citric	0.521	109.47
Gliossilico / Glyoxylic	0.338	31.11
Ossalico / Oxalate	0.278	35.06
Omovanillico / homovanillic	0.549	100.02
Vanilmandelico / Vanilmandelic	0.505	100.08
Pimelico / Pimelic	0.156	24.99
Azelaico / Azelaic	0.133	25.03
2-idrossi-isobutirrico / 2-hydroxyisobutyric	0.240	24.99
Trans-Aconitico / Trans-aconitic	0.574	99.94
2-idrossibutirrico / 2-hydroxybutyric	0.240	30.26

Other Components

COMPONENTE / COMPONENT	Concentrazione / Concentration (mM)	Concentrazione / Concentration (g/L)
Urea	116.55	7.0
Creatinina / Creatinine	17.68	2.0

La bilancia utilizzata per pesare le materie prime ha una precisione di +/- 0.0001 g ed è calibrata utilizzando regolarmente standard di massa riconducibili al NIST.

The balance used to weigh raw materials has an accuracy of +/- 0.0001 g and is calibrated using regular mass standards traceable to NIST.