PURAC® HiPure 90

Description

PURAC HiPure is the natural L-Lactic acid, which is produced by fermentation from sugar. It has a mild acid character and is used in many applications in pharmaceutical, cosmetic and chemical industries.
PURAC's primary functions are pH-regulation, metal sequestration, chiral intermediate and as a natural body constituent in cosmetic and pharmaceutical products.

Specification	Product	L-lactic acid
Assay	Assay	89.5-90.5 % (w/w)
	Stereochemical purity	min. 95 (% (S)-enantiomer)
Visual sensory characteristics	Color fresh	max. 20 Apha
	Color after heating	max. 20 Apha
	Description of flavor	mild, characteristic lactic acid flavor
	Flavor	passes test
	Odor	passes test
	Form	syrupy liquid
Identification	Positive for lactate	passes test
	Relative density 20 °C	1.20-1.22 g/ml
Purity	Sulfated ash / residue on ignition	max. 0.01 %
	Calcium	max. 10 ppm
	Chloride	max. 10 ppm
	Sulphate	max. 10 ppm
	Heavy metals	max. 5 ppm
	Iron	max. 5 ppm
	Lead	max. 0.5 ppm
	Mercury	max. 1 mg/kg[1)]
	Cyanide	max. 5 mg/kg[2)]
	Citric, oxalic, phosphoric, tartaric acid	passes test
	Reducing sugars	passes test USP
	Sugars and other reducing substances	passes test
	Readily carbonizable substances	passes test USP
	Volatile fatty acids	passes test
	Methanol	max. 50 ppm
	Ether insolubles	passes test EP
Physical-chemical-properties	Molecular formula	$CH_3CHOHCOOH$
	Molecular weight	90
	Chemical name	2-hydroxypropionic acid

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Registration	CAS number	79-33-4 (general 50-21-5)
	EEC Additive number	E 270
	GRAS status	21CFR184.1061
	Complies with	FCC, JSFA, USP, 231/2012/EC
	Complies with (except for assay)	EP (if spec. gravity > 1.21)
	ECOCERT	natural origin 100 %

[1)]based on a 80 %(w/w) solution of lactic acid in water
[2)]based on the dry substance