PURAC® FCC 80

Description

PURAC FCC is the natural L-lactic acid, which is produced by fermentation from sugar. It has a mild acid taste and is widely used as an acidulant in the food industry.
PURAC's primary functions are to preserve and flavor.

	Product	L-lactic acid
Assay	Assay	79.5-80.5 % (w/w)
	Stereochemical purity (L-isomer)	min. 97 %
Visual sensory characteristics	Clarity of solution	clear
	Color	colorless or yellowish
	Color fresh	max. 50 Apha
	Color after 6 month	max. 50 Apha
	Form	syrup liquid
	Odor	agreeable
Identification	Solubility	soluble in water and ethanol
	Positive test for acid	1 in 10 in water, litmus paper
	Positive for lactate	passes test
	Density (20 °C)	1.18-1.20 g/ml
Purity	Calcium	max. 20 ppm
	Chlorides	max. 10 ppm
	Sulfate	max. 20 ppm
	Arsenic (as As)	max. 1 ppm
	Heavy metals total	max. 10 ppm
	Iron	max. 10 ppm
	Lead	max. 0.5 ppm
	Mercury	max. 1 ppm
	Cyanide	max. 1 mg/kg
	Citric, oxalic, phosphoric, tartaric acid	passes test
	Reducing sugars	passes test
	Sugars	passes test
	Readily carbonizable substances	passes test
	Volatile fatty acids	passes test
	Sulfated ash / residue on ignition	max. 0.1 %
	Methanol / methylesters (as methanol)	max. 0.2 % (w/w)
	Ether insolubles	max. 0.7 % (w/w)
Physical-chemical-properties	Molecular formula	$CH_3CHOHCOOH$
	Molecular weight	90
	Chemical name	2-hydroxypropionic acid
Regulatory / Registration	CAS number	79-33-4 (general 50-21-5)
	EEC Additive number	E270 Lactic acid
	GRAS status	21CFR184.1061
	INS	270 Lactic acid
	Complies with	FCC, JSFA, 231/2012/EC, JECFA

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