

**Description****PURAMEX® FE**

PURAMEX FE is the iron (II) salt of natural L(+)-lactic acid, which is produced by fermentation from sugar.

**Specification**

Product	ferrous lactate
Form	powder
Iron identification (FCC test)	passes test
Lactate identification (FCC test)	passes test
Iron-II	20-21%
Iron-III	max. 0.2%
Assay Iron-II-lactate (anhydrous)	98.0-100.5%
Stereochemical purity (L-isomer)	min. 96%
Optical (specific) rotation $[\alpha]_D^{20}$	(+6.0) – (+11.0)
pH (2g product + 98g water)	4.6-6.0
Loss on drying	12.0-14.0%
Heavy metals total	max. 50 ppm
Arsenic	max. 2 ppm
Lead	max. 1 ppm
Mercury	max. 1 ppm
Cadmium	max. 1 ppm
Sulphate	max. 1000 ppm
Chloride	max. 500 ppm
Oxalic acid	passes test (FCC)
Foreign acids (citric- and tartaric acid)	no reaction with lead acetate
Volatile fatty acids	no odour if 1 g warmed with sulphuric acid
Mesophilic bacteria	max. 1000 counts/g
Moulds	max. 100 counts/g
Yeasts	max. 100 counts/g

**Physical-chemical properties**

Molecular formula	Fe-(CH <sub>3</sub> CHOHCOO)2.2H <sub>2</sub> O
Molecular weight	234 (anhydrous)
Chemical name	Iron(II)-L-2-hydroxy-propionate

**Registration**

CAS number	85993-25-5
EEC Additive number	E 585
USA	GRAS
Complies with	FCC, EUSFA