

PURAC® FCC 88

Description PURAC FCC 88 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.

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| Specification | Product | L-lactic acid |
| | Form | syrupe liquid |
| | Clarity of solution | passes test |
| | Color fresh | max. 50 Apha |
| | Color after 6 month | max. 50 Apha |
| | Odor | characteristic |
| | Taste | acid |
| | Assay | 87.5-88.5 % (w/w) |
| | Positive for lactate | passes test |
| | Positive test for acid | passes test |
| | Relative density 20 °C | 1.20-1.22 g/ml |
| | Solubility | passes test |
| | Sulfated ash / residue on ignition | max. 0.1 % |
| | 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 |
| | Arsenic (as As) | max. 1 ppm |
| | Calcium | max. 20 ppm |
| | Chlorides | max. 10 ppm |
| | Sulfate | max. 20 ppm |
| | Sugars | passes test |
| | Readily carbonizable substances | passes test |
| | Volatile fatty acids | passes test |
| | Methanol / methylesters (as methanol) | max. 0.20 % (v/w) |
| | Ether insolubles | max. 0.7 % (w/w) |
| | Stereochemical purity (Corbion method) | min. 97 % (S)-enantiomer) |

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| Physical-chemical- properties | Chemical name | 2-hydroxypropionic acid |
| | Molecular formula | CH ₃ CHOHCOOH |
| | Molecular weight | 90 |

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| Regulatory / Registration | EEC Additive number | E270 Lactic acid |
| | CAS number | 79-33-4 (general 50-21-5) |
| | INS | 270 Lactic acid |
| | GRAS status | 21CFR184.1061 |
| | Complies with | FCC, JSFA, 231/2012/EC, JECFA |