

Product data

Rev.No.5/2201

PURACAL[®] PP/FCC

Description

PURACAL is the highly soluble calcium salt of natural L(+)-lactic acid, which is produced by fermentation. It is a white, non-hygroscopic product. PURACAL PP/FCC is the high quality food grade calcium lactate penta hydrate powder.

Specification

Product	calcium lactate
Hydrate form	penta
Form	agglomerated powder

Visual/sensoric characteristics

Color fresh (powder)	white
Odor and taste	neutral
Clarity and color of solution	passes test

Identification

Assay (w/w)*	98.0-101.0%
Assay calcium (w/w)	13.4-14.5%
Loss on drying (w/w)	22.0-27.0%

* on dry substance (d.s.)

Purity

pH (5g product+95g water)	6.0 -8.0
Volatile fatty acids	passes test
Reducing substances	passes test
Heavy metals total	max. 10 ppm
Iron	max. 40 ppm
Mercury	max. 1 ppm
Lead	max. 0.4 ppm
Fluoride	max. 15 ppm
Arsenic	max. 1 ppm
Chloride	max. 80 ppm
Sulphate	max. 400 ppm
Phosphate	max. 150 ppm
Magnesium and alkalisalts	max. 1.0%
Acidity (as lactic acid)	passes test
Mesophilic bacteria	max. 1000 counts/g
Molds	max. 100 counts/g
Yeasts	max. 100 counts/g

Physical-chemical properties

Molecular formula (anhydrous)	$(\text{CH}_3\text{CHOHCOO})_2\text{Ca}$
Molecular weight	218 (anhydrous)
Chemical name	Calcium-L-2-hydroxy-Propionate
Sieve analysis	min. 98%; $\leq 500 \mu\text{m}$

Copyright © PURAC. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical, photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions contained herein may be relied upon for any purpose or reason. PURAC disclaims any liability, damages, losses or other consequences suffered or incurred in connection with the use of the data, information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use.

For further information:

<http://www.purac.com/>

Page 1 of 2



Product data

Rev.No.5/2201

Typical values

Dust*	max. 70 mg/100g
Dissolution rate (1000mg/240ml)	40 sec.
Solubility in water (1g/30ml)	passes test
Solubility in ethanol (95%)	passes test
Identification on calcium	passes test
Identification on lactate	passes test

All methods available upon request.

* Heubach method

Registration

CAS number	28305-25-1 (general 814-80-2)
EEC Additive number	E 327
USA	GRAS
Complies with	FCC, EUSFA, JSFA, JECFA

Packaging

PURACAL PP/FCC is supplied in 25 kg (55 lbs) multilayer paper bags and in 20 kg (44.1 lbs) cartons.

Copyright © PURAC. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical, photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions contained herein may be relied upon for any purpose or reason. PURAC disclaims any liability, damages, losses or other consequences suffered or incurred in connection with the use of the data, information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use.

For further information:

<http://www.purac.com/>

Page 2 of 2