

TECHNICAL SHEET Think natural.® NATASEEN®-L

Description

Natamycin, the active ingredient in Nataseen®-L, also known as pimaricin, is a fungicide of the polyene macrolide group produced by natural strains of Streptomyces natalensis or of Streptococcus lactis, it is especially effective against yeasts and moulds.

Functional uses

Natural antimicrobial preservative, against yeasts and moulds

Physical properties	Specifications*
Synonyms	Natamycin, E 235
Appearance	White to creamy-white crystalline powder
Storage	Product should be stored in cool (<20°C) and dry conditions (<65% RH).
Shelf life	24 months from date of production
Package	10 kg per carton / 20 x 500 gram jars
Chemical properties	Specifications*
Purity	Min. 50%
Lactose	Max. 50%
Loss on drying	Max. 8%
рН	5,5 - 7,5
Sulphated ash	Max. 0,5%
Arsenic	Max. 3 mg/kg
Lead	Max. 2 mg/kg
Mercury	Max. 1 mg/kg
Microbiological properties	Specifications*
Total plate count	Max. 100 cfu/g
Salmonella in 25 g	Absent
Lysteria Monocytogenes	Absent
E.coli in 25 g	Absent

^{*}Accordingly to Commission Regulation (EU) No 231/2012, 9 March 2012.



MINIMUM INHIBITORY CONCENTRATION (MIC) TABLES** (1)		
MYCETE	MIC (mg/kg)	
Aspergillus chevalieri 4298	0.65	
Aspergillus clavatus	0.1~0.5	
Aspergillus flavus CBS 3005	6.0	
Aspergillus 8867	4.5	
Aspergillus flavus Madagascar	5.0	
Aspergillus flavus Port Lamy	5.0	
Aspergillus nidulans	1.0	
Aspergillus niger	1.0~1.8	
Aspergillus ochraceus 4069	2.5	
Aspergillus orycae	10	
Botrytis sp	1~2.5	
Fusarium sp	10	
Gloeosporium album	2.5	
Mucor mucedo	1.2~5	
Penicillium chrysogenum	0.6~1.3	
Penicillium digitatum	2.5	
Penicillium expansum	5	
Peniciuuium islandicum	1.1	
Penicillium notatum 4640	5	
Penicillium roqueforti var.puctatum	10	
Rhizopus 4758	10	
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^{**}the values refer to 100% natamycin.



MINIMUM INHIBITORY CONCENTRATION (MIC) TABLES** (2)		
SACCHAROMYCETE	MIC (mg/kg)	
Brettanomyces bruxellensis	1,5	
Candida albicans	1.5~2.0	
Candida guilliemondii	3.0	
Candida veni	1.0	
Hansenula polymorpha	1.0	
Kloeckera apiculata	3.0	
Saccharomyces bailii	1.0	
Saccharomyces bayanus	1.0	
Saccharomyces cerevisiae 8021	2.5	
Saccharomyces cerevisiae var.ellipsoideus	2.5	
Saccharomyces exiguous	2,5	
Saccharomyces ludwigii 0339	2.5	
Saccharomyces rousii 0562	5	
Saccharomyces sake 0305	5	
Torulopsis candida	2.0	
Torulopsis lactis-condensi	3.0	

^{**}the values refer to 100% natamycin.