

# Natamycin



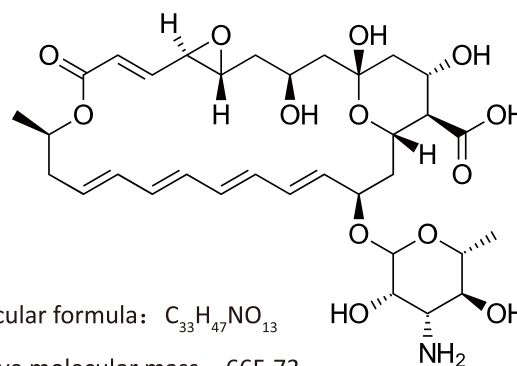
## Natamycin



# Natamycin

## Product Description

Natamycin (E235) is a natural anti-fungal product which is produced by a pure culture of *Streptomyces* spp. following a strictly controlled fermentation process. Natamycin inhibits not only the growth of various moulds and yeasts, but also the production of their toxins. It can greatly extend the shelf-life of cheese, baked food, meat and beverage products.



## Features

- Effectively inhibiting yeasts and moulds;
- High safety and little dosage;
- Applied on the surface of food by spraying or dipping;
- Stable under a wide range of pH value, effective at 3-9.



## Applications

- Natamycin can effectively inhibit most yeasts and moulds, without affecting food flavor.
- Dipping the cheese in 300-500mg/L natamycin suspension for 2 minutes can extend the shelf life without affecting the natural ripening of cheese.
- Spraying the suspension of natamycin with 300-500mg/L on the surface of baked food or mooncake, it will extend the shelf-life effectively.
- Adding 5-10mg/L of natamycin in brewed wine could inhibit the fermentation caused by yeasts in order to extend the shelf-life.



The Minimum Inhibitory Concentration (MIC)

Microorganism	MIC (mg/kg)
<i>Aspergillus flavus</i> 8867	4.5
<i>Aspergillus niger</i>	2
<i>Rhizopus oryzae</i> 4758	10
<i>Fusarium sp.</i>	10
<i>Brettanomyces bruxellensis</i>	1.5
<i>Saccharomyces cerevisiae</i> 8021	2.5

## Standard

Natamycin has been tested and approved as a food preservative suitable for human consumption by, amongst others, the European Safety Authority (EFSA), World Health Organization (WHO) and Food and Drug Administration (FDA).

GSFA Provisions for Natamycin

Food Categories	Max level (mg/kg)
Unripened cheese	40
Ripened cheese	40
Processed cheese	40
Cheese analogues	40
Whey protein cheese	40
Cured and dried non-heat treated processed comminuted meat, poultry, and game products	20
Cured and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	6



## Packaging and Storage

Packing: 100g, 500g, 25kg or packed to customer's requirement.

Storage: Keep in cool condition away from direct sunshine and temperature under 20°C.

Period of validity is 18 months.

# Namay<sup>®</sup> +

## Product Description

Namay<sup>®</sup>+ is an improved generation of natamycin developed with new techniques. It increases the dispersion of traditional natamycin and improves the sedimentation problem in natamycin suspension. Namay<sup>®</sup>+ has better inhibition effect than traditional natamycin.

## Key Benefits

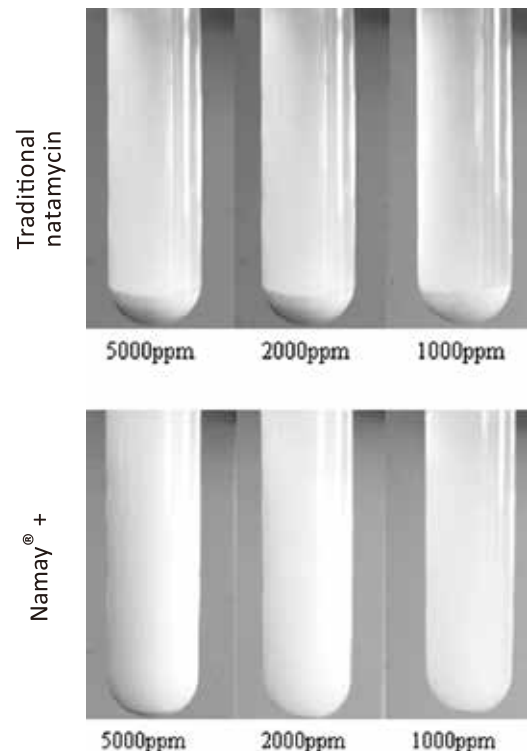
- More evenly distributed in solution;
- Higher anti-fungal capability;
- Cost effective with 15-25% decrease in dosage.

### Improved appearance



Namay<sup>®</sup>+ powder is finer and whiter compared with traditional natamycin, with better coverage on the surface of food. It has better inhibiting capability and more cost-effective.

### Uniform distribution



At concentrations of 1000ppm, 2000ppm and 5000ppm for 24 hours, Namay<sup>®</sup>+ all exhibits better dispersion than traditional natamycin.

# Namay<sup>®</sup> Pro

## Product Description

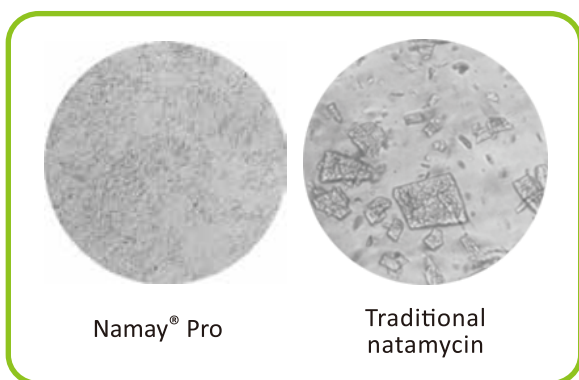
Namay<sup>®</sup>Pro is an upgraded generation of natamycin, made by recrystallizing traditional natamycin to tiny and uniform dispersion with advanced technology. Namay<sup>®</sup>Pro is more evenly distributed in water, and is easier to complete coverage on the surface of the food.

## Key Benefits

- Tiny and uniform particle sizes;
- Improved inhibiting capability.

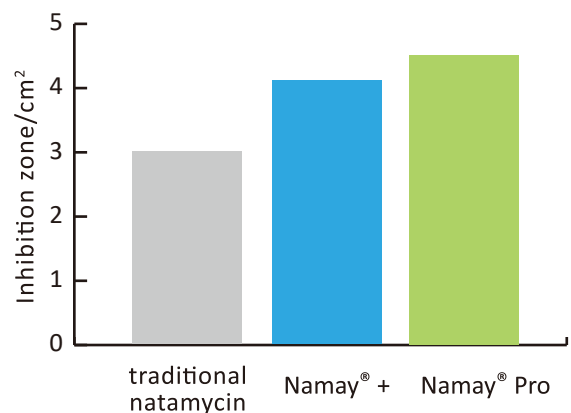


### Uniform crystal structure



Under microscopic observation, Namay<sup>®</sup>Pro is tiny uniform crystal, while traditional natamycin is irregular block crystal.

### Effective anti-fungal protection



At same concentration, the anti-fungal capability of Namay<sup>®</sup>Pro improves 30% than traditional natamycin.

# Namay<sup>®</sup> Sus

## Product Description

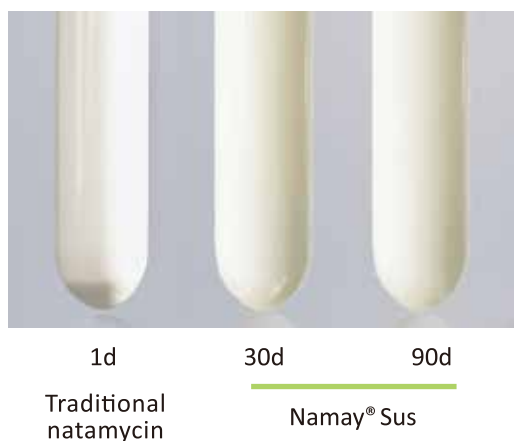
Namay<sup>®</sup>Sus is a high-stable natamycin suspension, and avoids the messy distribution and rapid sediments of traditional natamycin. It has more uniform dispersion and higher anti-fungal capability, and is also easier to use.

## Key Benefits

- Liquid durable suspension;
- Highly convenient and cost efficient;
- Uniform dispersion.

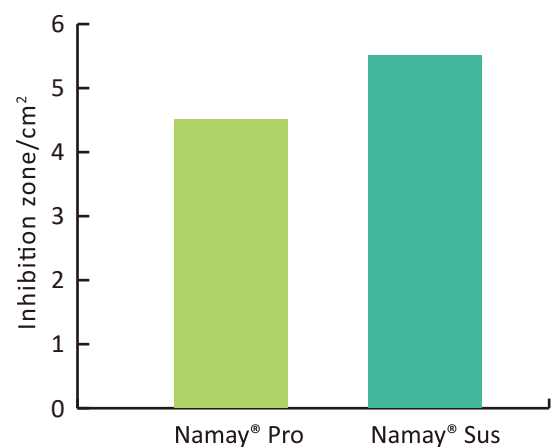


### Durable suspension



Namay<sup>®</sup>Sus achieves uniform distribution in water, and stays effectively steady and durable, which solves the sedimentation problem of traditional natamycin.

### Improved anti-fungal protection



At same concentration, the anti-fungal capability of Namay<sup>®</sup>Sus improves 10% than Namay<sup>®</sup>Pro.

# Namay<sup>®</sup> Sol

## Product Description

Namay<sup>®</sup>Sol is a water-soluble natamycin produced with special techniques. While traditional natamycin has a low solubility, Namay<sup>®</sup>Sol dissolves instantly in water, creating a clear and easy-to-use solution. Thanks to its even distribution in liquids, Namay<sup>®</sup>Sol broadens the application of natamycin.

## Key Benefits

- Soluble in water, forming clear solution;
- Negligible sedimentation;
- More convenient for liquid products.

### Water-soluble

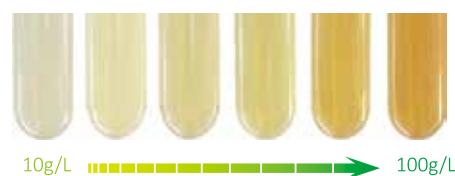


Traditional natamycin

Namay<sup>®</sup> Sol

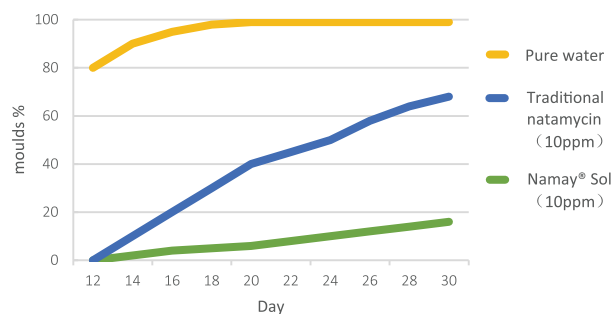
Namay<sup>®</sup>Sol solution is clear and without sediments, while traditional natamycin suspension is milky and non-transparent. Namay<sup>®</sup>Sol is more convenient to use.

### High solubility



Namay<sup>®</sup>Sol has excellent water solubility, which can achieve 100g/L.

### Improved anti-fungal protection



At same concentration, the anti-fungal capability doubles compared with traditional natamycin. Namay<sup>®</sup>Sol efficiently protects your product throughout its shelf life.



## Innovative Technology, Health Pilot

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