

# Flavorpro<sup>®</sup> 848MDP

F848MDP

## Features/Benefits

- Microbial 5'-Phosphodiesterase
- Efficient production of 5'-nucleotides from yeast RNA
- Suitable for enhancing natural flavour of yeast extracts
- Suitable to use with Deaminase to create the flavour enhancer, Inosinic acid
- Kosher, Halal and non-GM enzyme

**Flavorpro<sup>®</sup> 848MDP** is a microbial 5'-Phosphodiesterase which can be used to efficiently hydrolyse RNA from different types of yeasts to create 5'-nucleotides. The enzyme can be used to improve the flavour of yeast extracts by creating the natural flavour enhancer, 5'GMP. Flavorpro<sup>®</sup> 848MDP can be used in combination with the enzyme Deaminase to produce high yields of Inosinic acid during the manufacture of nucleotide rich yeast extracts. Nucleotide rich yeast extracts can be used to mask bitterness, create umami type flavours and replace salt in food products.

## Specification

Activity	39,000 U/g Ribonuclease
Biological Source	Microbial
Form	Off-white to brown powder
Optimum pH Range	5.0 - 5.5
Optimum Temperature Range	65 - 75°C

## Application & Dose

**Flavorpro<sup>®</sup> 848MDP** displays optimal activity in the pH range of 5.0-5.5 and at a temperature of 70°C. As a guideline, the enzyme should be dosed at 1.0% w/w based on the dry weight of yeast. Flavorpro<sup>®</sup> 848MDP will perform efficiently on RNA substrate from different types of yeast. The enzyme may be dissolved in water and then added to the yeast RNA substrate. The enzyme incubation time will depend on the type of yeast RNA, enzyme dose, temperature and pH conditions used during the RNA hydrolysis step. Trials will be required in order to determine the optimal enzyme hydrolysis conditions. The enzyme is deactivated at 90°C for 30 minutes after the enzyme hydrolysis step.

## Health & Safety

Always read the Material Safety Datasheet (MSDS) before use and retain. If you are in any doubt about recommended product handling and safety, please contact Biocatalysts before use. Generally, when using enzymes avoid contact with the skin and eyes and do not breathe dusts or aerosols containing them.

## Storage

Powders: Activity will remain within specification for at least 12 months from the date of manufacture when stored below 20°C.

## Allergens

Refer to allergen statement.

## Food Status

Prepared from enzymes of GRAS status and manufactured to FCC/JECFA/WHO/FAO recommendations for enzymes used in food processing.

## GM Status

This product does not contain GMMs or genetically modified material.

## Quality

1. Food Safety Policy - The Company operates a Hazard Analysis at Critical Control Points (HACCP) system. This ensures that ingredients and the production environment are regularly monitored for contamination and that the processes are designed to produce safe products every time.
2. Good Manufacturing Practice (GMP) - The Company's integrated management system encompasses Total Quality, Health and Safety, Food Safety and GMP.
3. Biocatalysts Ltd is certified to ISO9001, ISO14001, ISO18001 and FSSC 22000

## Availability

Powders: standard 25kg net poly-lined, 100% recyclable cardboard box. Non-standard quantities are also available for some products, please enquire.