



Product Information

FERMASE PA™
450

Penicillin G Amidase Biocatalyst 2 (Specially for 7-AVCA production)

Introduction	: Penicillin G Amidase bio-catalyst is useful for the synthesis of penicillin and cephalosporins intermediates.
Product Type	: FERMASE PA™ 450 is a blend of cross linked enzyme preparation of Penicillin G Amidase from a highly active <i>E.coli</i> cells, free of-lactamase activity, supplied as insoluble, wet granules with suitable preservative.
Color	: Black to brown aggregates, irregularly shaped with defined particle size distribution. The color may vary from batch to batch and the color intensity is not an indication of the product quality.
Particle Size	: 150-500 µm > 98.0%, 100 µm < 2.0%.
Activity	: Not less than 450 U per gram dry weight.
Unit definition	: Amount of enzyme catalyzing the formation of one micromole of 6-Aminopenicillanic acid at 37° C, pH 8.0 at 2 % (w/v) Penicillin G potassium salt initial concentration, in the milieu of 50 mM of Sodium Phosphate buffer, within the range of zero order kinetics.
Dry weight	: 28-30 %.
Productivity *	: 32-42 Kg of 7-AVCA / Kg FERMASE PA™ 450 (Dry weight basis).
Advantages	: <ul style="list-style-type: none">◆ High operational stability◆ High recyclability◆ Constant filtration time
Storage stability	: Cool and dry conditions are recommended for storage. The recommended temperature for storing is between 2- 5° C. When stored under these conditions, the product will maintain its declared activity for at least 12 months. Do not freeze !
Safety	: FERMASE PA™ 450 is very safe to handle as it does not generate any aerosols. However, avoid raising dust and contact with skin and eyes. Take up spilled dust by mechanical means. Avoid forming aerosols, wash contaminated clothing & ensure sufficient ventilation.

* The batch performance may vary between plant to plant depending upon type of reactors & operating conditions.

MANUFACTURED BY :
FERMENTA BIOTECH LTD.