

Heparinase III

Catalogue no:	AMS.HEP-ENZ III-S	Quantity:	0.10 IU
	AMS.HEP-ENZ III	Quantity:	0.50 IU
	AMS.HEP-ENZ III BU	Quantity:	1.00 IU
	AMS.HEP-ENZ III BU2	Quantity:	2.00 IU
	AMS.HEP-ENZ III BU3	Quantity:	5.00 IU

Unit of Activity:	1 umol per minute at 25 °C using bovine kidney HS as substrate. Activity determined by increase in A232nm.
Specificity:	Depolymerises heparan sulfate by elimination at the uronic acid. Acts next to N-sulfate or N-acetate, in sites with zero or low O-sulfation. However because of the many sequence variations some of these sites are resistant to Hep III (and also Hep II).
Appearance:	Supplied as frozen solution containing 0.4% BSA, 0.22um sterile filtered.
Origin:	<i>Flavobacterium heparinum</i> ATCC 13125
Manufacturing Process and Refs:	Growth of bacterium: <i>McLean, M.W. et al. (1984) Eur. J. Biochem. 145, 607-615.</i> Purification by further chromatography. Final product 0.22-um sterile filtered and stored at -60 °C.
Impurities:	Other enzymes nominally 0.1% max. Baseline resolution from the other heparinases.
Toxicity & Hazards:	We are not aware of any toxicity associated with this product. In common with good laboratory practice the material should only be handled by qualified personnel trained in laboratory procedures and familiar with potential hazards. These products are not intended for human consumption, drug use or any form of human experimentation.
Applications:	Biological, biochemical and biophysical laboratory research.
Storage:	Store frozen at -80 degrees Celsius upon receipt. Avoid repeated freeze-thawing. Stock solutions should be prepared in appropriate aliquots and stored frozen at -80 °C
Warranties:	AMSBIO warrants that its products shall conform to the description of such products as provided in our catalogue. This warranty is exclusive, and seller makes no other warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose. See 'terms and conditions' for further warranty information.

NOTES ON USAGE/PREPARATION

Enzyme is supplied as frozen solution, as a droplet at the apex of the Eppendorf tube (Actual volume will be stated along with batch number on the label for the vial).

Our recommendations for dilution of the concentrated enzyme are as follows:

Best practice is to dilute the concentrated enzyme **in the Eppendorf tube** without any tapping or centrifuging.

It is important when diluting the enzyme in the Eppendorf tube to make sure the resulting solution is homogenous before taking aliquots. To do this we strongly recommend that the tube is gently tapped many times, while being kept vertical. (The enzyme should not be vortex mixed or inverted)

Just to be clear: We suggest you dilute the concentrated enzyme in the tube it is supplied in. We do not recommend that you try to pipet up the small droplet of enzyme as supplied.

NOTE: the spot of enzyme may not be easily visible to the naked eye, especially for smaller pack sizes.

To minimise freeze-thawing we suggest you aliquot into 2 or 5 milliunit lots at concentration of 1 milliunit per 5ul & store at -20C

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