# Weiss-Bio-Tech



### NATUZYM® AA TS

### Product Data Sheet

Date of issue: 30 July 2022

#### Amylase enzyme for the fruit juice industry

Description:	NATUZYM <sup>®</sup> AA TS is an amylolytic enzyme preparation with a high level of acid amylase. It is used during the hot clarification process of pome fruit juices and to prevent the formation of filamentous cloudiness. NATUZYM <sup>®</sup> AA TS is obtained from selected strain of <i>Aspergillus niger</i> and it contains mainly acid amylase. NATUZYM <sup>®</sup> AA TS is used in apple and pear juice production during the depectinisation after the pasteurisation step (92–95°C). Although the product has a high thermal stability, up to 75°C, it is recommended to apply this specia amylase at 50 – 55°C, as this corresponds to the optimum temperature for pectinase.		
Properties:	Activity: >200 AA units/g Form	MB: 3.2.1.1 n: liquid ur: brown	
	Colour and appearance may vary from batch to batch. Colour intensity or turbidi is not an indication of enzyme activity.		
Application:	NATUZYM® AA TS has been especially developed for starch hydrolysis in apple and pear juice, during the depectinisation stage of the process.		
Conditions of use:	NATUZYM <sup>®</sup> AA TS with an activity of min. 170 S-Amylase U/g is easy to use dilution (10-15x with cold tap water) the product can be simply added metering pump to the juice. Stirring is recommended during 5 minutes after to ensure a good homogenisation.		
		commended during 5 minutes after fillir	
	to ensure a good homogenisation.     Application:	Dosage recommendations: 1 to 2 hours at 45-55°C	
	to ensure a good homogenisation.    Application:   For apple and pear juice 12°Brix	Dosage recommendations: 1 to 2 hours at 45-55°C	
	to ensure a good homogenisation.     Application:	Dosage recommendations:	
GM Status:	to ensure a good homogenisation.    Application:   For apple and pear juice 12°Brix   Early season fruit   Advanced and late season fruit   The product and its constituent enzyme   Enzyme proteins are produced by fea   which are removed and not present in t	Dosage recommendations:   1 to 2 hours at 45-55°C   20-50 ml/1000 l   5-30 ml/1000 l   s are not genetically modified.   rmentation of classical microorganism   he final product.   genetically modified (non-GM) origin and	
GM Status: Composition:	to ensure a good homogenisation.    Application:   For apple and pear juice 12°Brix   Early season fruit   Advanced and late season fruit   The product and its constituent enzyme   Enzyme proteins are produced by fea   which are removed and not present in t   Only agricultural raw materials of non-	Dosage recommendations:   1 to 2 hours at 45-55°C   20-50 ml/1000 l   5-30 ml/1000 l   s are not genetically modified.   mentation of classical microorganism   he final product.   genetically modified (non-GM) origin and   n the final formulation.	
	to ensure a good homogenisation.    Application:   For apple and pear juice 12°Brix   Early season fruit   Advanced and late season fruit   The product and its constituent enzyme   Enzyme proteins are produced by fear   which are removed and not present in t   Only agricultural raw materials of non-used for the fermentation process and it   NATUZYM® AA TS is stabilised with glyca   Antuzyme   AA TS is available in 25 kg p	Dosage recommendations:   1 to 2 hours at 45-55°C   20-50 ml/1000 l   5-30 ml/1000 l   s are not genetically modified.   rmentation of classical microorganism   he final product.   genetically modified (non-GM) origin and   n the final formulation.   erol and preserved with sodium benzoat   olyethylene drums or IBCs. The product   d packaging under refrigerated condition	

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Compliance and legal:	Our enzyme products are used as processing aids in the food manufacturing process and are thus free from any labelling provisions in the European Union. The product does not fall within the scope of EU regulations (EC) 1829/2003 and (EC) 1830/2003 on genetically modified food and feed.	
	The product is manufactured to comply with recommended purity specification given by the Joint FAO/WHO Expert Committee on Food Additives (JECFA), an conforms with the recommended specifications of the Food Chemical Codex for food enzymes.	
Purity criteria:	Total plate count Yeasts & Moulds Total Coliforms Salmonella Escherichia coli	< 50 000 CFU per g < 30 CFU per g < 30 CFU per g absent in 25 g absent in 25 g
	Heavy Metals (as Pb) Lead Arsenic Cadmium Mercury	< 30 ppm < 5 ppm < 3 ppm < 0.5 ppm < 0.5 ppm
Special diet information:	Kosher: Halal: Vegan/Vegetarian:	Certified Certified enzyme product or any constituents are not of animal origin

Certification: WeissBioTech GmbH has a certified quality management system according to ISO 9001:2015 and a certified Food Safety Management System according to FSSC 22000 incl. HACCP, which are reviewed in regular audits.

#### Made by WeissBioTech GmbH, Germany

To the best of our knowledge, the information contained herein is accurate and complete. However, nothing herein contained shall be construed to imply any warranty or guarantee.

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