

## SPECIFICATION

### $\alpha$ -Amylase

Human Saliva

#### GENERAL INFORMATION

Catalogue Number	120-10	Storage Temperature	-20°C
CAS Number	9000-90-2	Storage Note	Avoid Moisture
E.C. Number	3.2.1.1	Shipping Note	Cold Pack
Synonyms	Alpha Amylase, Amylase	Received By	_____
		Receipt Date	_____

#### PRODUCT INFORMATION

Source	Human Saliva
Form	Lyophilized from Tris Chloride, Mannitol, pH 7.2
Appearance	White to off-white powder
Solubility	Clear, colorless (10 mg/mL saline)
Activity	$\geq 100$ U/mg
Unit Definition	One unit will catalyze the hydrolysis of one micromole of 2-chloro-4-nitrophenyl- $\alpha$ -D-maltotrioside to yield 2-chloro-4-nitrophenol per minute at 37°C.
Protein	$\geq 0.2$ mg protein/mg (Coomassie)
Specific Activity	$\geq 400$ U/mg protein
Lipase	$\leq 0.05\%$
Protease	$\leq 0.1\%$
Ammonia	$\leq 0.1$ $\mu$ mole/mg
Purity	$\geq 90\%$ (SDS-PAGE, doublet at approximately 60 kDa)
pH	6.0 – 7.5 (10 mg/mL in water)
Recertification	Three years from manufacture date

#### HANDLING INFORMATION

Advice	Reconstitute into provided container and centrifuge to ensure full recovery.
Storage	Aliquot and freeze at -20°C after reconstitution.
Handling	Handle as a potentially hazardous substance.

Non-infectious disease statement: Negative or non-reactive at the donor level for anti HIV 1 and 2, anti HCV, HBsAg, HCV NAT, HIV-1 NAT, and syphilis by FDA approved methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at the Biosafety Level 2 (BSL 2) as recommended for any potentially infectious human serum or blood specimen in the CDC/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009. This product is intended for research, laboratory use, or further manufacturing. It is not for administration to humans. We certify this to be true to the best of our knowledge. The statements herein are offered for informational purposes only and are intended to be used solely for your consideration, investigation and verification. The suitability of this product for each application must be determined by each end user.

