

Alpha-Amylase, Human pancreas

CATALOG NO:	P1545-100 100 units
ALTERNATE NAMES:	Amylase, a-Amylase, 1,4-a-D-glucan glucanohydrolase, glycogenase
SOURCE:	Human Pancreas
FORM:	Liquid
FORMULATION:	In 0.2 micron solution in 100 mM tris chloride, 150 mM sodium chloride, and 1 mM calcium chloride, pH 7.5.
SPECIFIC ACTIVITY:	> 100 U/mg protein
CONCENTRATION:	> 1.0 mg protein/mL (A_{280} , $E^{0.1\%}=2.33$)
UNIT DEFINITION:	One unit will catalyze the hydrolysis of one micromole of 2-chloro-4-nitrophenyl-a-D-maltotrioxide to yield 2-chloro-4-nitrophenol per minute at 37°C.
STORAGE CONDITIONS:	Store at 4°C
DESCRIPTION:	The enzyme a-Amylase hydrolyses alpha-bonds of large alpha-linked polysaccharides like starch and glycogen, yielding glucose and maltose. It is being used by researchers as a barometer of the body's response to physical or psychological stress. NIH study shows that Women with high levels of alpha amylase, indicating stress, are less likely to conceive.
CROSS-CONTAMINATIONS:	Lipase: < 0.1% GOT/AST: < 0.01% ALP: < 0.01% Protease: < 0.01%

RELATED PRODUCTS:

- Amylase Activity Colorimetric Assay Kit (K711)
- Alpha-Amylase, Human Pancreas (P1454)
- Alpha-Amylase Antibody (3014)
- Alpha-Amylase Antibody (3925)

FOR RESEARCH USE ONLY! Not to be used on humans.