Enzymology Research Center, Inc.
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PANCREATIN FUNGAL

SPECIFICATION SHEET

DESCRIPTION
Pancreatin is a highly active enzyme preparation derived from Non-GMO strains of Aspergillus oryzae (Protease, Amylase) and Aspergillus niger (Lipase).

PHYSICAL PROPERTIES
A light tan to cream colored, free-flowing powder, soluble in water, free of offensive odor and taste.

ENZYMATIC PROPERTIES
The optimum pH for the Protease is 6.0 to 9.0, the Amylase optimum pH is 5.2, and the Lipase optimum pH is 4.0 to 9.0. The optimum temperature for the Protease is 50ºC, the Amylase optimum temperature is 50ºC and the optimum temperature for Lipase is 35ºC.

ACTIVITY
The activity for the Protease, Amylase and Lipase are done according to the FCC or industry methods. The acceptance criteria for all enzyme assays is: NLT 85.0% and NMT 115.0% of the declared units of enzyme activity.*

COUNTRY OF ORIGIN USA

STORAGE/SHELF LIFE/STANDARD PACK SIZE
Product is stable for two years (24 months) if stored at or below 10º C in sealed poly bags in boxes or drums away from sunlight and high humidity. Product is packed in 25 kilo fiber drums or double-wall boxes.

HANDLING PRECAUTIONS
Avoid the formation of aerosol and dust of the product. Repeated inhalation of enzyme aerosol or dust may cause allergic type reactions in sensitized individuals. For detailed information please refer to the SDS.

Description		Specification	Method
Activity:	Protease	150 HUT/MG	FCC
	Amylase	150 SKB/MG	Industry
	Lipase	12 FIP/MG	FCC
Identity:		Pancreatin (Fungal)	FTIR
Moisture:		NMT 10%	Ohaus MB-45
Metals:			
Lead		NMT 5 ppm	SW-846 6020
Microbiological Data:			
TPC		<10,000 CFU/g	Soleris / AOAC 990.12
E.coli		Negative/10g	Soleris / AOAC 991.14
Entero		<100 CFU/g	AOAC 2003.01
Salmonella**		Negative/25g	BAM Ch. 5 / AOAC 2011.03
Yeast		<1,000 CFU/g	Soleris / AOAC 997.02
Mold		<1,000 CFU/g	Soleris / AOAC 997.02
Coliforms		<100 CFU/g	Soleris / AOAC 991.14

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***If Entero test results exceed 100 CFU/g then Salmonella testing is completed.*