

Product Number:	N4517
Lot Number:	033K0017
Product Name:	N-Z-AMINE AS
Always non-animal source?	No
Type of Manufacture:	Biological Extraction and/or Purification
Sub-Type:	Animal
Animal Species:	BOVINE/PORCINE
Tissue Used:	BOVINE:CASEIN / PORCINE: PANCREATIC ENZYME
Country of Origin of Biological Components:	BOVINE:AUS/NZ- PORCINE:USA
Country of Manufacture:	USA
Has a certificate of suitability been filed for TSE (Transmissible Spongiform Encephalopathies):	No
If yes, what is the certificate number?	NA
Animals obtained from USDA (United States Department of Agriculture) or Foreign Government Facilities?	Yes
Are the animal(s) tracable back to the processing facility?	Yes
Process performed to inactivate pathogenic viral agents:	HEAT TREATED TO A MINIMUM TEMP OF 175 DEG F FOR AT LEAST 15 MINUTES AND THEN A MINIMUM TEMP OF 230 DEG F FOR AT LEAST 12 SECONDS
Is there any comingling with other animal materials?	No
Testing of product to prove virus free:	NO
Was animal protein fed to the animals?	Unknown
Was ruminant protein fed to the animals?	Unknown
Age of animal(s) at time of slaughter:	BOVINE: NA - PORCINE: ADULT
Method of slaughter:	BOVINE: N/A/ MILKED- PORCINE- UNKNOWN
Did animal(s) pass ante and post mortem testing?	Yes

Does any component contain neuronal tissue?

No

Comments:

ENZYMATIC DIGEST OF CASEIN.
THE CASEIN USED IS DERIVED
FROM MILK SOURCED FROM
HEALTHY ANIMALS IN THE SAME
CONDITION AS MILK COLLECTED
FOR HUMAN CONSUMPTION.



Steven G. Walton, CSP, CIH
Corporate Vice President
EHS, Quality and Compliance

The above information is believed to be correct to the best of our knowledge. This information is to be used for the purpose of determining animal origin only and not to be confused with "country of origin" for import/export purposes. Sigma-Aldrich shall not be held liable for any damage resulting from handling or from contact with the above product.