

Trace analysis

Type: NH4 measure =< 200 ppm Type: NH4 measure =< 200 ppm

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number13265Lot NumberA0320778DescriptionDL-Serine,99%CAS Number302-84-1Quality Test/Release Date $30/Nov/2024$ Suggested retest date $30/Nov/2024$ Country of OriginCHINADeclaration of OriginporcineBSE/TSEThe product is manufactured from porcine gelatire and poultry keratineResult NameUnitsSpecificationsAppearancewhite crystalline powder or crystalsInfrared spectrum%98.5 to 101.5Titration Total base%98.5 to 101.5Other amino acids%=<0.5 (TLC)Loss on drying%=<0.3 (105°C, 3 hrs)Heavy metals (as Pb)ppm=<10Sulfated ash%=<0.1UV transmittance%>=95 (c=10, 2 N HCl, 430 nm) 1UV transmittance%>=95 (c=10, 2 N HCl, 430 nm) 1Trace analysisType: Fe measure =< 10 ppmTrace analysisType: CI measure =< 200 ppm					
DescriptionDL-Serine,99%CAS Number302-84-1Quality Test/Release Date30/Nov/2024Suggested retest date30/Nov/2029Country of OriginCHINADeclaration of OriginporcineBSE/TSEThe product is manufactured from porcine gelatime and poultry keratineResult NameUnitsSpecificationsTest ValueAppearancewhite crystalline powder or crystals white crystalline powderInfrared spectrumauthenticauthenticTitration Total base%98.5 to 101.598.7Other amino acids%=<0.5 (TLC)	Catalogue Number	13265			
CAS Number302-84-1Quality Test/Release Date30/Nov/2024Suggested retest date30/Nov/2029Country of OriginCHINADeclaration of OriginporcineBSE/TSEThe product is manufactured from porcine gelatime and poultry keratineResult NameUnitsSpecificationsTest ValueAppearancewhite crystalline powder or crystals white crystalline powderInfrared spectrumauthenticauthenticTitration Total base%98.5 to 101.598.7Other amino acids%=<0.5 (TLC)	Lot Number	A0320778			
Quality Test/Release Date 30/Nov/2024 Suggested retest date 30/Nov/2029 Country of Origin CHINA Declaration of Origin porcine BSE/TSE The product is manufactured from porcine gelatime and poultry keratine Appearance white crystalline powder or crystals white crystalline powder Infrared spectrum authentic authentic Titration Total base % 98.5 to 101.5 98.7 Other amino acids % =<0.5 (TLC)	Description	DL-Serine,99%			
Suggested retest date 30/Nov/2029 Country of Origin CHINA Declaration of Origin porcine BSE/TSE The product is manufactured from porcine gelatime and poultry keratine Result Name Units Specifications Test Value Appearance white crystalline powder or crystals white crystalline powder Infrared spectrum authentic authentic Titration Total base % 98.5 to 101.5 98.7 Other amino acids % =<0.5 (TLC)	CAS Number	302-84-1			
Country of OriginCHINADeclaration of OriginporcineBSE/TSEThe product is manufactured from porcine gelatime and poultry keratineResult NameUnitsSpecificationsTest ValueAppearancewhite crystalline powder or crystals white crystalline powderInfrared spectrumauthenticTitration Total base%98.5 to 101.598.7Other amino acids%=<0.5 (TLC)	Quality Test/Release Date	30/Nov/2024			
Declaration of Origin BSE/TSEporcine The product is manufactured from porcine gelatime and poultry keratineResult NameUnitsSpecificationsTest ValueAppearancewhite crystalline powder or crystals white crystalline powder authenticauthenticInfrared spectrumauthenticauthenticTitration Total base%98.5 to 101.598.7Other amino acids%=<0.5 (TLC)	Suggested retest date	30/Nov/2029			
BSE/TSEThe product is manufactured from porcine gelative and poultry keratineResult NameUnitsSpecificationsTest ValueAppearancewhite crystalline powder or crystals white crystalline powderauthenticauthenticInfrared spectrumauthenticauthenticauthenticTitration Total base%98.5 to 101.598.7Other amino acids%=<0.5 (TLC)	Country of Origin	CHINA			
Result NameUnitsSpecificationsTest ValueAppearancewhite crystalline powder or crystals white crystalline powderInfrared spectrumauthenticTitration Total base%Other amino acids%Loss on drying%Heavy metals (as Pb)ppmSulfated ash%UV transmittance%Trace analysis%Trace analysisType: Fe measure =< 10 ppm	Declaration of Origin	porcine			
Appearancewhite crystalline powder or crystals white crystalline powderInfrared spectrumauthenticTitration Total base%98.5 to 101.598.7Other amino acids%=<0.5 (TLC)	BSE/TSE	The produ	The product is manufactured from porcine gelatine and poultry keratine		
Infrared spectrumauthenticauthenticTitration Total base%98.5 to 101.598.7Other amino acids%=<0.5 (TLC)	Result Name	Units	Specifications	Test Value	
Titration Total base % 98.5 to 101.5 98.7 Other amino acids % =<0.5 (TLC)	Appearance		white crystalline powder or crystals white crystalline powder		
Other amino acids%=<0.5 (TLC)=<0.5 (TLC)Loss on drying%=<0.3 (105°C, 3 hrs)	Infrared spectrum		authentic	authentic	
Loss on drying % =<0.3 (105°C, 3 hrs)	Titration Total base	%	98.5 to 101.5	98.7	
Heavy metals (as Pb)ppm=<10=<10Sulfated ash%=<0.1	Other amino acids	%	=<0.5 (TLC)	=<0.5 (TLC)	
Sulfated ash%=<0.10.07UV transmittance%>=95 (c=10, 2 N HCl, 430 nm) 198 (c=10, 2 N HCl, 430 nm) 1 cmTrace analysisType: Fe measure =< 10 ppm	Loss on drying	%	=<0.3 (105°C, 3 hrs)	0.11 (105°C, 3 hrs)	
UV transmittance>=95 (c=10, 2 N HCl, 430 nm) 198 (c=10, 2 N HCl, 430 nm) 1 cmTrace analysism cellcellTrace analysisType: Fe measure =< 10 ppm	Heavy metals (as Pb)	ppm	=<10	=<10	
UV transmittance%cm cellcellTrace analysisType: Fe measure =< 10 ppm	Sulfated ash	%	=<0.1	0.07	
cm cellcellTrace analysisType: Fe measure =< 10 ppm	LIV/ transmittance	%	>=95 (c=10, 2 N HCl, 430 nm) 1	98 (c=10, 2 N HCl, 430 nm) 1 cm	
Trace analysisType: Cl measure =< 200 ppmType: Cl measure =< 200 ppm	ov transmittance		cm cell	cell	
	Trace analysis		Type: Fe measure =< 10 ppm	Type: Fe measure =< 10 ppm	
	Trace analysis		Type: CI measure =< 200 ppm	Type: CI measure =< 200 ppm	
Trace analysis Type: 504 measure =< 500 ppm Type: 504 measure =< 200 ppm	Trace analysis		Type: SO4 measure =< 500 ppm	Type: SO4 measure =< 200 ppm	

Geert Torfs Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.