

Corporate Headquarters AMRESCO, LLC 6681 Cochran Road Solon, Ohio USA 44139-4300 440/349-1199FAX: 440/349-1182 www.amresco-inc.com Email: info@amresco-inc.com

Product:AMMONIUM SULFATEGrade:ULTRA PURE GRADECode:0191Appearance:White crystalline powderMol. Formula:H8N2O4SMol. Veight:132.14Description:VinitsAssay:MinMaxUnitsArsenic0.0001%Chloride0.0005%DNaseNONEP/FPASS	CERTIFICATE OF QUALITY						
Code:0191Appearance:White crystalline powderMol. Formula:H8N2O4SMol. Weight:132.14Description:ViteAssay:MinMaxUnitsDispositionArsenic0.0001%PASSChloride0.0005%PASSDNaseViteP/FPASS	Product:	AMMONIUM SULFATE	Ξ				
Appearance:White crystalline powderMol. Formula:H8N2O4SMol. Weight:132.14Description:VinitsAssay:MinMaxArsenicDispositionChloride0.0005%DNaseNONEP/FPASS	Grade:	ULTRA PURE GRADE					
Mol. Formula:H8N2O4SMol. Weight:132.14Description:Assay:MinMaxArsenicDispositionChloride0.0001%DNaseP/F	Code:	0191					
Mol. Weight:132.14Description:MinMaxUnitsDispositionArsenic0.0001%PASSChloride0.0005%PASSDNaseNONEP/FPASS	Appearance:	White crystalline powde	er				
Description:Assay:MinMaxUnitsDispositionArsenic0.0001%PASSChloride0.0005%PASSDNaseNONEP/FPASS	Mol. Formula:	H8N2O4S					
Assay:MinMaxUnitsDispositionArsenic0.0001%PASSChloride0.0005%PASSDNaseNONEP/FPASS	<u>Mol. Weight:</u>	132.14					
Arsenic0.0001%PASSChloride0.0005%PASSDNaseNONEP/FPASS	Description:						
Chloride0.0005%PASSDNaseNONEP/FPASS	<u>Assay:</u>		<u>Min</u>	Max	<u>Units</u>	Disposition	
DNase NONE P/F PASS	Arsenic			0.0001	%	PASS	
	Chloride			0.0005	%	PASS	
	DNase			NONE	P/F	PASS	
Heavy Metals (as PD) 0.0002 % PASS	Heavy Metals (a	is Pb)		0.0002	%	PASS	
Insolubles 0.005 % PASS	Insolubles			0.005	%	PASS	
Iron 0.0005 % PASS	Iron			0.0005	%	PASS	
Magnesium Test PASS P/F PASS	Magnesium Tes	t	PASS		P/F	PASS	
pH (5%, Water) @25C 5.0 6.0 PASS	pH (5%, Water)	@25C	5.0	6.0		PASS	
Phosphate 0.0005 % PASS	Phosphate			0.0005	%	PASS	
Protease NONE P/F PASS	Protease			NONE	P/F	PASS	
Purity (Dry Basis)99.5%PASS	Purity (Dry Basis	s)	99.5		%	PASS	
Residue on Ignition 0.005 % PASS	Residue on Igni	tion		0.005	%	PASS	
RNase NONE P/F PASS	RNase			NONE	P/F	PASS	
Selenium 0.0020 % PASS	Selenium			0.0020	%	PASS	

Storage:

Store at room temperature. Protect from moisture.

0191UP

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Date:

Cucker

<u>Title:</u>

Signature:

<u>QC MANAGER</u>

<u>7/11/2012</u>