

## 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 Number	22848
Lot Number	A0436419
Description	D-Cycloserine,98%
CAS Number	68-41-7
Quality Test/Release Date	18/Nov/2024
Suggested retest date	18/Nov/2027
Country of Origin	CHINA
Declaration of Origin	synthetic

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to light yellow	White
Appearance (Form)		Powder or crystals	Powder
Infrared spectrum		Conforms	Conforms
Titration with NaOH	%	>=97.5	99.8
Potency	µg/mg	>=900	996.6
Loss on drying	%	=<1 (60°C, 3 hrs) (vacuum) +108° to +114° (20°C, 589 (c=5, 2N NaOH)	0.2 (60°C, 3 hrs) (vacuum) +112° (20°C, 589) (c=5, 2N NaOH)
Specific optical rotation	nm	2N NaOH)	
Residue after ignition	%	=<0.5	0.1
pH		5.5 to 6.5 (10 % solution)	6.1 (10 % solution)
Condensation products		(0.04 % in 0.1 N NaOH)	(0.04 % in 0.1 N NaOH)
UV		at 285 nm A: =<0.8	at 285 nm A:0.044

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.