Fisher Scientific UK Ltd.
Bishop Meadow Road
Loughborough,
LE11 5RG, United Kingdom

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by INTERTEK SAI Global Certificate Number. QMS42099

Catalogue Number	G/0650
Lot Number	2222366
Description	Glycerol AR For analysis
CAS Number	56-81-5
Quality Test/Release Date	03/May/2022
Expiry Phrase	Use within 5 yrs of opening
Country of Origin	Germany
Declaration of Origin	Plant
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Assay	%	>= 99	99.97
Calcium (Ca)	ppm	<= 5	<0.5
Chemical form		Viscous liquid	Viscous liquid
Chloride (Cl) (%)	%	<= 0.0005	<0.0005
Colour	APHA	<= 10	<10
Copper (Cu)	ppm	<= 0.5	<0.05
Esters of fatty acids (%)	%	<= 0.08	<0.08
Fatty acids		Must be 'Pass'	Pass
IR		Must be 'Pass'	Pass
Iron (Fe)	ppm	<= 1	<0.05
Lead (Pb)	ppm	<= 0.5	<0.05
Magnesium (Mg)	ppm	<= 2	<0.05
Potassium (K)	ppm	<= 5	<0.5
Reducing substances (Pass/Fail)		Must be 'Pass'	Pass
Residue after ignition	%	<= 0.005	None Detected
Sodium (Na)	ppm	<= 20	<0.5
Total phosphorus (P)	ppm	<= 2	<0.5
Total silicon (Si)	ppm	<= 2	<0.5
Total sulfur (S)	ppm	<= 5	<1
Visual colour		Clear colourless	Clear colourless
Water	%	<= 0.5	0.15
Zinc (Zn)	ppm	<= 2	<0.05
pH (10% aq. soln.)		>= 6 and <= 8	6.01

Additional Information Meets the current analytical specification of BP

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.

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Ashok Ganatra
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 use or further manufacturing. 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.

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