

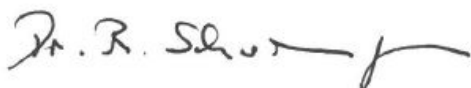
Certificate of Analysis

Product Name: Nonidet™ P 40 Substitute
BioXtra, mixture of 15 homologues
Product Number: 74385
Batch Number: BCCD4037
Brand: Sigma
CAS Number: 9016-45-9
Formula:
Formula Weight:
Quality Release Date: 11 JUN 2020
Recommended Retest Date: MAY 2024

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS	COLORLESS
APPEARANCE (FORM)	VISCOUS LIQUID	VISCOUS LIQUID
THIN LAYER CHROMATOGR.	CORRESPONDS TO STANDARD	CORRESPONDS TO STANDARD
DENSITY D20/4	1.055 - 1.065	1.058
REFRACTIVE INDEX N20/D	1.480 - 1.500	1.492
SOLUBILITY (COLOR)	COLORLESS	COLORLESS
SOLUBILITY (TURBIDITY)	CLEAR TO HAZY	HAZY
SOLUBILITY (METHOD)	0.25G IN 5ML WATER	0.25G IN 5ML WATER
PH	5 - 8	5.3
PH (METHOD)	(5% IN H2O)	(5% IN H2O)
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
VISCOSITY (ROTATION)	200 - 400 MPAS	360 MPAS
VISCOSITY (CONDITIONS)	NEAT / 20 C / DIN 45 / 100 S-1	NEAT / 20 C / DIN 45 / 100 S-1
METAL TRACE ANALYSIS (ICP)	CORRESPONDS TO REQUIREMENTS	PASSED
CALCIUM (ICP)	≤ 10 MG/KG	< 10 MG/KG
CADMIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
COBALT (ICP)	≤ 5 MG/KG	< 5 MG/KG
CHROMIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
COPPER (ICP)	≤ 5 MG/KG	< 5 MG/KG
IRON (ICP)	≤ 5 MG/KG	< 5 MG/KG
POTASSIUM (ICP)	≤ 1000 MG/KG	< 1000 MG/KG
LITHIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
MAGNESIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
MANGANESE (ICP)	≤ 5 MG/KG	< 5 MG/KG
MOLYBDENUM (ICP)	≤ 5 MG/KG	< 5 MG/KG

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SODIUM (ICP)	≤ 50 MG/KG	< 50 MG/KG
NICKEL (ICP)	≤ 5 MG/KG	< 5 MG/KG
LEAD (ICP)	≤ 5 MG/KG	< 5 MG/KG
ZINC (ICP)	≤ 5 MG/KG	< 5 MG/KG
TOTAL SULFUR AS SO₄ (ICP)	≤ 100 MG/KG	< 100 MG/KG
CHLORIDE (CL)	≤ 500 MG/KG	< 500 MG/KG



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.