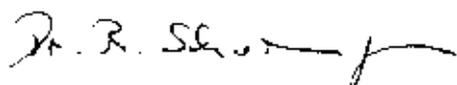


Certificate of Analysis

Product Name:
Humic acid - technical

Product Number: 53680
Batch Number: BCCL1589
Brand: ALDRICH
CAS Number: 1415-93-6
Quality Release Date: 02 FEB 2024

Test	Specification	Result
Appearance (Color)	Black	Black
Appearance (Form)	Powder or Crystals	Powder
Thin Layer Chromatography	Corresponds to Standard	Corresponds
Solubility (Color)	Brown to Very Dark Brown and Black	Very Dark Brown
Solubility (Turbidity)	Turbid with insolubles	Turbid with Insolubles
0.1 g in 10 ml Water		
PH of Solution (PH)		4.8
0.1 g in 10 ml Water		
Loss on Drying	≤ 30.0 %	11.6 %
Residue on Ignition		26.1 %



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

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.

