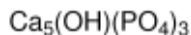


Certificate of Analysis

Product Name:

Hydroxyapatite - nanopowder, <200 nm particle size (BET), ≥97%, synthetic

Product Number: 677418
Batch Number: MKCX9459
Brand: ALDRICH
CAS Number: 12167-74-7
MDL Number: MFCD00010904
Formula: HCa₅O₁₃P₃
Formula Weight: 502.31 g/mol
Quality Release Date: 03 JUN 2025



Test	Specification	Result
Appearance (Color) White to Faint Blue	Conforms to Requirements	Off White
Appearance (Form)	Powder	Powder
X-Ray Diffraction	Conforms to Structure	Conforms
Assay Purity by XRF Analysis, wt%	≥ 97.0	99.4
Size Particle Size	≤ 200 nm	65 nm
Size Specific Surface Area: m ² /g	≥ 9.4	29.4
Product of Supplier Engi-Mat Co.	Confirmed	Confirmed



Larry Coers, Director
Quality Control
Milwaukee, WI US

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.

