

Technical Data Sheet Hydroxyapatite (nanoparticles dispersion)

Properties

Form : Nanoparticles Dispersion
Concentration : 10 wt. % in H₂O
Particle Size : <100 nm
CAS number : 12167-74-7
Linear Formula : [Ca₅(OH)(PO₄)₃]_x

Biocompatible
Biodegradable
Osteoconductive - osteoinductive
Chemical affinity towards biological molecules
MDL Number : MFCD00010904

Product Description

Hydroxyapatite is the main inorganic component of human hard tissues and their synthetic forms have broad use in many fields such as nanomedicine, tissue engineering, bioimaging, and drug delivery systems owing to the excellent biocompatibility, biodegradability, and non-immunogenicity. Because of their presence in living organisms, calcium phosphates (CaPs) are of utmost importance to humans.

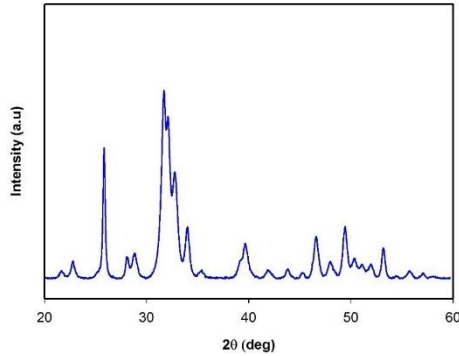
Application areas: Nanomedicine, tissue engineering, bioimaging, and drug delivery systems

Shipping: Ready to ship in 4 business days.

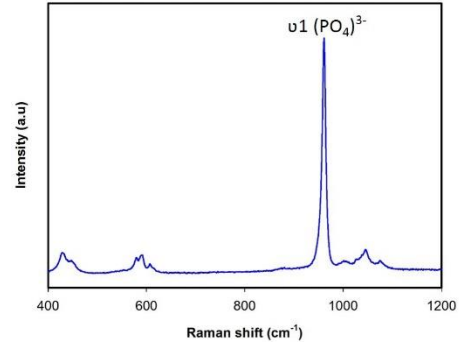
Storage conditions: Room temperature for the powder form, +4°C for the suspension form

Packaging : 10 mL, 25 mL, 100 mL

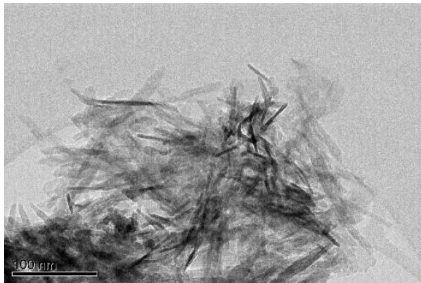
Quality Control



Raman spectrum of Hydroxyapatite nanoparticles



XRD spectrum of Hydroxyapatite nanoparticles



Bright-field TEM micrograph of HA Nanoparticles