

## Technical Data Sheet Hydroxyapatite (nanopowder)

### Properties

**Form :** Nanopowder

**Particle Size :** <100 nm

**CAS number :** 12167-74-7

**Linear Formula :**  $[\text{Ca}_5(\text{OH})(\text{PO}_4)_3]_x$

**MDL Number :** MFCD00010904

Biocompatible

Biodegradable

Osteoconductive - osteoinductive

Chemical affinity towards biological molecules

### 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.

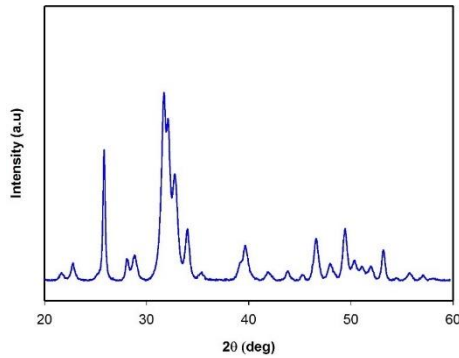
**Application areas:** Nanomedicine, tissue engineering, bioimaging, and drug delivery systems

**Shipping:** Ready to ship in 4 business days.

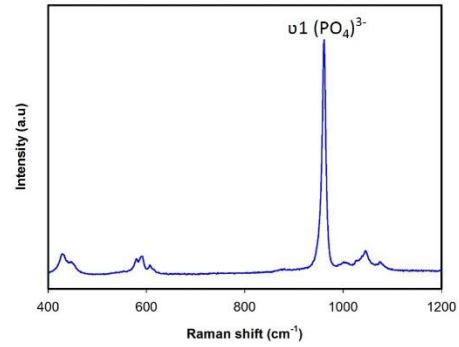
**Storage conditions:** Room temperature for the powder form, +4°C for the suspension form

**Packaging :** 10 mL, 25 mL, 100 mL

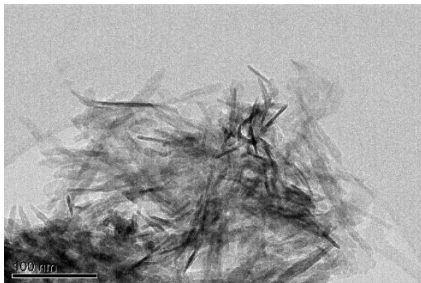
### Quality Control



Raman spectrum of Hydroxyapatite nanoparticles



XRD spectrum of Hydroxyapatite nanoparticles



Bright-field TEM micrograph of HA Nanoparticles