

Technical Data Sheet
Beta Tricalcium Phosphate (β -TCP, nanoparticles dispersion)

Properties

Form : Nanoparticles Dispersion
Particle Size : <100 nm
CAS Number: 7758-87-4
MDL Number : MFCD00015984
Emprical Formula : Ca₃O₈P₂

Biocompatible
Biodegradable
Osteoconductive - osteoinductive
Chemical affinity towards biological molecules

Product Description

Beta Tricalcium phosphate (β -TCP) is one the most used and potent synthetic bone graft substitutes. When compared to HA, it has been posited that beta tricalcium phosphate (β -TCP) exhibits better biodegradability, hence it can be absorbed better and replaced by newly generated hard tissues. This property makes beta tricalcium phosphate (β -TCP) a promising biomaterial among all other non-resorbable materials. Nano-sized β -TCP, in particular, has attracted great attention in many biomedical applications.

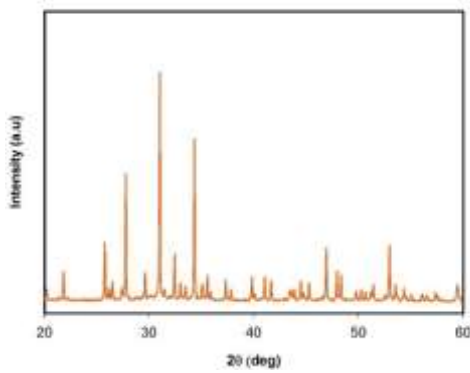
Application areas: Nanomedicine, tissue engineering, bioimaging, and drug delivery systems

Shipping: Ready to ship in 4 business days.

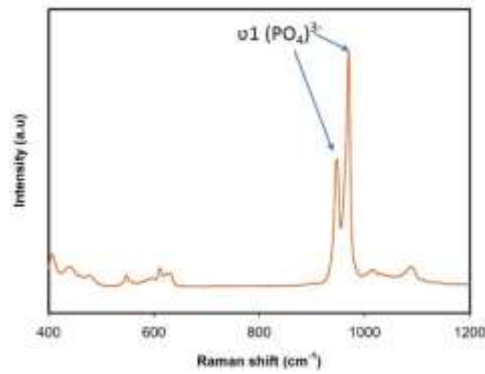
Storage conditions: Room temperature for the powder form, +4°C for the suspension form

Packaging : 10 g, 100g

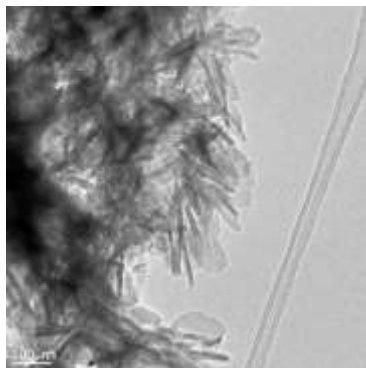
Quality Control



XRD spectrum of β -TCP nanoparticles



Raman spectrum of β -TCP nanoparticles



Bright-field TEM micrograph of β -TCP nanoparticles