

Preparing an RFQ for HA β TCP and 45S5

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Abstract. A useful request for quotation links the material to the buyer's process, required evidence and purchase stage. This checklist helps HA, β -TCP and 45S5 buyers obtain comparable replies before paying for samples or commissioning tests. Separate essential requirements from preferences, and ask the supplier to identify every exception.

Keywords: hydroxyapatite; β -TCP; 45S5; RFQ; material specification

1. Define the material and buying stage

State the material, form and intended development use. For HA, distinguish the required powder or microsphere form; for β -TCP, identify the beta phase; for 45S5, state whether powder or microspheres are needed and request the composition and phase-characterization basis. A family name is not a grade identifier.

Describe the next operation: dispersion, compounding, coating or thermal processing. Include the process conditions that constrain the material. Give the sample quantity, anticipated pilot quantity, delivery country and requested timing separately. An estimate is not a purchase commitment.

2. Make requirements comparable

List each required characteristic with its unit, reporting basis, method and acceptance limit, where already established. Mark unresolved limits for discussion. Avoid a bare request for 'high purity' or 'small particles': these cannot be compared consistently across quotations.

For PSD, request D10, D50 and D90 with the distribution basis and preparation conditions. Laser diffraction has a defined measurement scope, but ISO 13320 does not supply material-specific requirements [1]. Do not equate a nominal size label with an agreed PSD specification.

3. Ask for the right evidence

Request the current grade specification and SDS, then ask which results are routine release tests and which require a separate report or new test. For a proposed sample, request its lot-linked COA or ask when the lot will be assigned. Label historical or illustrative reports as reference evidence.

Use method references within their scope. ISO 13779-3 addresses HA-based material characterization [2]; ASTM F1088-23 addresses β -TCP raw-material requirements [3]. Ask whether a relevant method can be supplied and whether exceptions apply. Neither reference establishes the compliance of a particular supplier, lot or finished device.

4. Request an itemized reply

Ask the supplier to confirm the exact grade and exceptions, available sample amount, packaging, minimum order quantity, lead time and quotation validity. Request currency, shipping basis and destination, with material, testing and freight charges separated. These are questions, not statements of Kannrybio's commercial terms.

Send the completed requirement list through kannrybio.com/contact/ or to info@kannrybio.com. Request a written comparison against each essential requirement before deciding which sample to evaluate.

Table 1. Information that turns an enquiry into a comparable offer.

Material	Buyer should identify	Ask the supplier to confirm
HA	Form, use, PSD and phase needs	Grade, method and applicable limits
β -TCP	Beta-phase requirement and process	Phase evidence and test scope
45S5	Powder or microspheres and process	Composition basis and morphology
All three	Sample and pilot quantities; destination	Exceptions, documents and itemized quote

Scope. This is a purchasing checklist, not a product specification or offer. Test availability, acceptance limits and commercial terms require written agreement for the selected grade.

References

- ISO. ISO 13320:2020. Particle size analysis - Laser diffraction methods. Geneva: ISO; 2020.
- ISO. ISO 13779-3:2018. Implants for surgery - Hydroxyapatite - Part 3: Chemical analysis and characterization of crystallinity ratio and phase purity. With Amd 1:2021. Geneva: ISO; 2018.
- ASTM International. ASTM F1088-23. Standard specification for medical-grade beta-tricalcium phosphate raw material for implantable medical devices. West Conshohocken: ASTM; 2023. doi:10.1520/F1088-23.

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