

## Certificate of Analysis

Date of Testing: 2023-08-12 17:51:00

Date of Next Testing: 2027-08-11 17:51:00

Product Name: **Calcium phosphate**

CAS Number: 7758-87-4

Specifications & Purity: 98%, $\beta$ -phase basis

Lot #: H2309601

SKU #: **C104263**

**Analysis: 081360**

| Parameter  | Limit Values          | Result                |
|--|-----------------------|-----------------------|
| Cadmium(Cd)                                      | 0-1 (ppm)             | 0.50 ppm              |
| Chromium(Cr)                                     | 0-5 (ppm)             | 3.00 ppm              |
| Chloride (Cl-)                                   | 0-100 (ppm)           | 55.00 ppm             |
| Zinc(Zn)   | 0-10 (ppm)            | 5.00 ppm              |
| (Pb)Lead   | 0-5 (ppm)             | 3.00 ppm              |
| Hydroxylapatite, $\alpha$ -TCP and Pyrophosphate | 0-2 (%)               | 1.00 %                |
| $\beta$ -phase basis(X-Ray Diffraction)          | 98-100 (%)            | 98.00 %               |
| Barium(Ba)                                       | 0-10 (ppm)            | 5.00 ppm              |
| Mercury(Hg)                                      | 0-0.5 (ppm)           | 0.30 ppm              |
| (As)Arsenic                                      | 0-0.5 (ppm)           | 0.50 ppm              |
| Total sulfur as SO <sub>4</sub> (ICP)            | 0-250 (ppm)           | 150.00 ppm            |
| Nickel(Ni)                                       | 0-1 (ppm)             | 0.50 ppm              |
| Copper(Cu)                                       | 0-1 (ppm)             | 0.50 ppm              |
| Heavy metal (as Pb)                              | 0-50 (ppm)            | 25.00 ppm             |
| Cobalt(Co)                                       | 0-1 (ppm)             | 0.50 ppm              |
| X-Ray Diffraction                                | Conforms to Structure | Conforms to Structure |



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager