

## Certificate of Analysis

Date of Testing: 2023-03-31 18:26:00  
Date of Next Testing: 2027-03-30 18:26:00  
Product Name: **Calcium phosphate**  
CAS Number: 7758-87-4  
Specifications & Purity: 98%, $\beta$ -phase basis  
Lot #: C23201118  
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