

C-Root SP



ROOT CANAL BIOCERAMIC SEALER

*Breakthrough Technology with
Strontium Silicate*

Global Patent: PCT/CN2019/097075
FDA Clearance: K212983
Registration/FEI Number: 3021971019
Owner/Operator Number: 10084370
US PATENT NO.17/266.102
EU PATENT NO.19847130.2



Revolutionary Formulation • Outstanding Quality • Competitive Pricing • Global Patent
Clinical Success in Asia • Superior Flow & Painless & Rapid Periapical Healing



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C-Root SP

Product Description

- **C-Root SP Injectable Root Canal Bioceramic Sealer** is a premixed, injectable silicate bio-ceramic paste material which solidifies in the presence of water. It is used to sealing the various complexities within the root canal system during obturation and promote mineralization. C-Root SP is a mixture containing strontium silicate, calcium, silicon, strontium and magnesium ions, which harden in the presence of water and promotes healing and dentin mineralization; It is bactericidal due to its high alkalinity prior to its final setting.
- C-Root SP is a newly patent awarded Bioceramic Root Canal Sealer. It is injectable white hard cement, which is designed for safe and effective permanent root canal filling and sealing.

- **Composition:** Strontium Silicate, Zirconia, Calcium Phosphate and Calcium Hydroxide

Advantages: Excellent biocompatibility. Easy to use. Lateral canal filling ability. Excellent radiopacity. Mild postoperative reaction. Rapid periapical bone lesion healing. No shrinkage during setting.

Used for: Root Canal Sealing and Permanent Filling.

Indications: Permanent filling of root canal after it has been cleaned and disinfected properly.

It is suitable for lateral condensation/compaction technique, single cone obturation technique and vertical condensation techniques

Device Listing: D466741

C-Root SP



Strontium Silicate Bioceramics
Experience the extraordinary

C-ROOT SP INJECTABLE ROOT CANAL BIOCERAMIC SEALER

- | | | |
|-------------------------------------|---|--|
| ✓ Biocompatibility and Osteogenesis | ✓ 3D sealing and filling | ✓ High X-ray radio opacity |
| ✓ Easy operation | ✓ Chemically bonds to dentin | ✓ Hydrophilicity |
| ✓ No shrinkage | ✓ High antibacterial (pH > 12) | ✓ React to form hydroxyapatite |
| ✓ Ideal working time | ✓ Remineralization in dental tubules | ✓ Affordability |
| ✓ Lateral canal filled | ✓ Rapid periapical healing | ✓ Single cone technique |
| ✓ Mild Post-Op Reaction | ✓ Excellent flow characteristics | ✓ Average fill 15-25 root canals per 2g |

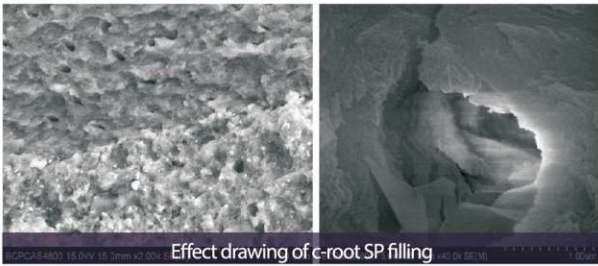
C-Root SP

Product Properties

01

GOOD SEALING, REMINERALIZATION IN DENTAL TUBULES TO GENERATE STRONTIUM HYDROXYAPATITE

- **C-Root SP** particles are relatively fine, which can be injected into the root canal, flow into the various anatomical complexities (including small lateral root canal, fins, cul-de-sacs). It can also penetrate the dental tubules (2-5 microns in diameter) for remineralization to form hydroxyapatite with strontium substituted, which effectively seals the canal.
- **C-Root SP** bioceramic premixed paste, is easy to operate and can be filled by single cone technique, which can save time and reduce the risk of root fracture. The price is reasonable and acceptable, it has great application value.



03

ANTIBACTERIAL

- Antibacterial efficacy of 100% of enterococcus faecalis and 99% of staphylococcus Aureus within 2 minutes of exposure. C-Root SP contains calcium hydroxide which is a potent bactericidal agent commonly used in root canal medicaments which enhances its bactericidal properties.

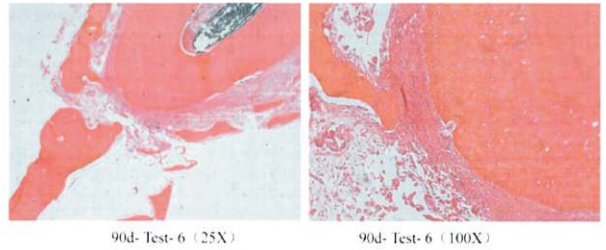
时间节点	杀灭对象	抗菌效果					
		×1		×10		×100	
2min	试验样品组重复 1						
	金黄色葡萄球菌	99%	100%	99%	100%	100%	100%
	粪肠球菌	100%	100%	100%	100%	100%	100%
	试验样品组重复 2						
	金黄色葡萄球菌	100%	100%	100%	100%	100%	100%
	粪肠球菌	100%	100%	100%	100%	100%	100%
	试验样品组重复 3						
	金黄色葡萄球菌	100%	100%	100%	100%	100%	100%
	粪肠球菌	100%	100%	100%	100%	100%	100%
	试验样品组重复 4						
	金黄色葡萄球菌	100%	100%	100%	100%	100%	100%
	粪肠球菌	100%	100%	100%	100%	100%	100%

02

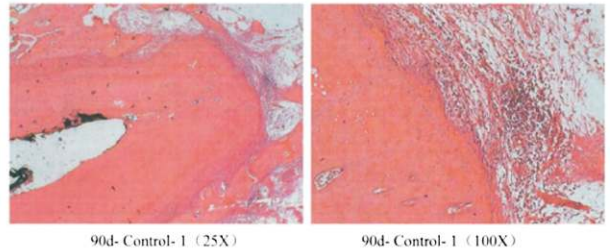
GOOD BIOCOMPATIBILITY

- **C-Root SP** has been tested for biocompatibility by The Dental medical device testing center, School of Stomatology, Peking University for up to 2 years and reported to be non-toxic, non irritating, non carcinogenic and non mutagenic with osteogenic potential and mild post operative reactions.

Endodontic Usage Test (REP/PDS64-2019-0014-GG-BGE) showed:
At the time period of 90 days, among the 10 test specimens (C-Root SP), 10 specimens (C-Root SP) showed no inflammation.



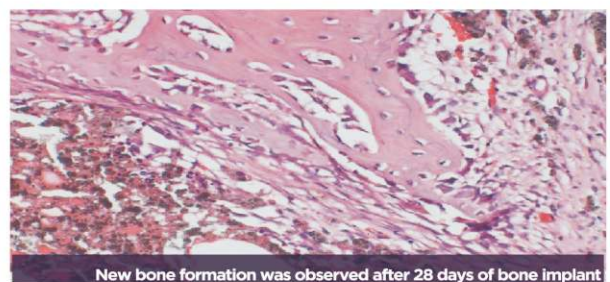
Among the 5 control specimens (other sealer), 4 specimens showed no inflammation, 1 specimens of periapical tissue showed moderate inflammation (See the figure below).



04

INDUCE OSTEOGENESIS AND ROOT END FORMATION

- C-Root SP is not easy to extrude compared to other sealers! Small amount of extrusion can induce osteogenesis and root end formation. Good apical sealing and osteogenic potential from the strontium silicate which promotes healing for long term success.



Pre-Clinical Research Report

In vitro cytocompatibility and osteogenic potential of calcium silicate-based dental cements in a root canal-filling model

Yan Jing^{1,2}, Ting Gong², Chenggang Duan¹, Huan Wang¹, Chengfei Zhang² and Prasanna Neelakantan²

Abstract

Objective: To investigate the *in vitro* cytocompatibility and osteogenic potential of an experimental calcium silicate-based cement and the inflammatory response in human periodontal ligament stem cells (hPDLSCs).

Methods: Cellular responses, osteogenic-related gene expression, and the production of inflammatory cytokines including interleukin (IL)-6 and IL-8 were studied in hPDLSCs exposed to the experimental root canal-filling material C-Root, the commercial tricalcium silicate-based material BioRoot RCS, and the epoxy resin-based material AH Plus. Differences were analyzed using one-way ANOVA with Bonferroni-adjusted pairwise comparison.

Proprietary Name:	Injectable Root Canal Bioceramic Sealer
Classification Name:	RESIN, ROOT CANAL FILLING
Product Code:	92E
Device Class:	2
Regulation Number:	872.3620
Medical Specialty:	Dental
Registered Establishment Name:	BEIJING C-ROOT DENTAL MEDICAL DEVICES CO., LTD.
Registered Establishment Number:	3021671019
Premarket Submission Number:	K212983
Owner/Operator:	Beijing C-Root Dental Medical Devices Co., LTD.
Owner/Operator Number:	10084370
Establishment Operations:	Manufacturer



WHAT IS THE IDEAL ROOT CANAL BIOCERAMIC SEALER

- ✓ Flow
- ✓ Setting time
- ✓ Sealing
- ✓ 3D filling
- ✓ X-ray radio opacity
- ✓ Biocompatibility
- ✓ No staining
- ✓ Bactericidal
- ✓ No resorbable
- ✓ Remineralization in dental tubules
- ✓ Mild Post-OP Reaction
- ✓ Osteogenesis



Located in Mapo Science and Technology Park, Shunyi District, Beijing, Beijing C-Root Dental Medical Devices Co. LTD is a Zhongguancun high-tech enterprise with R & D, manufacture and sale of dental root canal treatment devices, which has achieved breakthrough development. C-Root Dental Company has built a GMP quality management system and a purification workshop of 600 square meters; Two

types of medical devices, EDTA root canal lubricating gel and Calcium hydroxide root canal medication paste, have been highly recommended by general dentists and Endodontic specialists. C-Root SP Injectable Root Canal Bioceramic Sealer, has been awarded the registration certificate of CFDA (gxxz 20213170769) of China and FDA certificate (K212983) of the United States of America . C-Root SP has global

patent protection for strontium silicate paste. The excellent properties of C-Root SP ensure high and long term success, and the affordable price benefits dentists and patients.



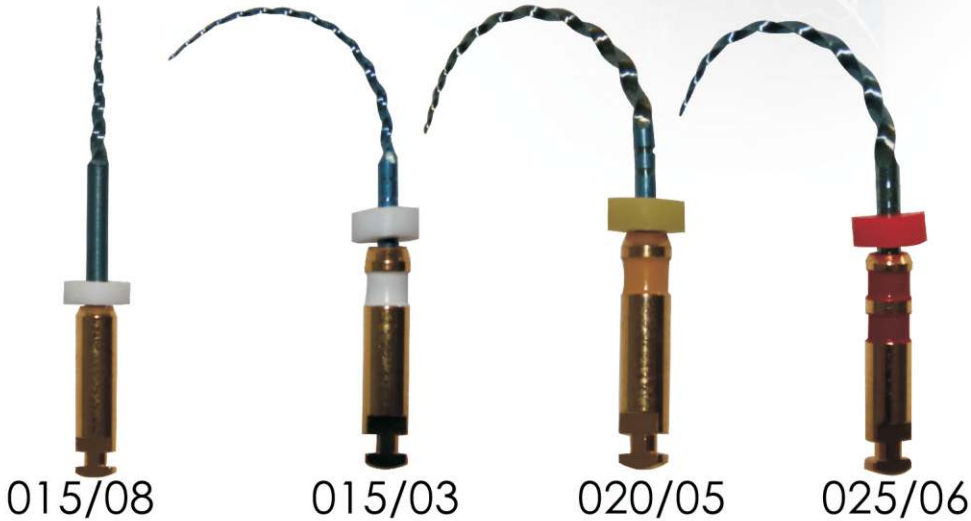
C-Root NiTi Files

Flexible, Fast Root Canal Preparation

Device Listing: D466740

C-Root NiTi Files .04 :
 015/08 19mm 2.5N•cm 500RPM
 015/03 21mm 1.5N•cm 300RPM
 020/04 21mm 2.5N•cm 500RPM
 025/04 21mm 2.5N•cm 500RPM

C-Root NiTi Files .06 :
 015/08 19mm 2.5N•cm 500RPM
 015/03 21mm 1.5N•cm 300RPM
 020/05 21mm 2.5N•cm 500RPM
 025/06 21mm 2.5N•cm 500RPM



EDTA ROOT CANAL LUBRICATING GEL

Lubrication and file fracture prevention.



DISINFECTION PASTE

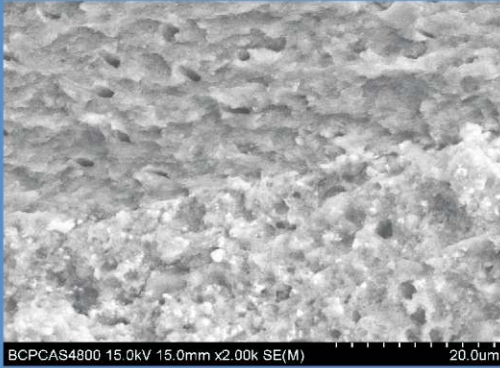
The recognized most effective root canal medicament



► **Composition:** 10% urea peroxide + 17% EDTA + glycerol + polyethylene glycol + carboxymethyl cellulose CMC + sodium hyaluronate

- ✓ Good flow
- ✓ X-ray radio opacity
- ✓ No setting
- ✓ Easy to take out
- ✓ Easy to put into root tip 1/3 part
- ✓ Complete sterilization, less pain during diagnosis and less postoperative reaction

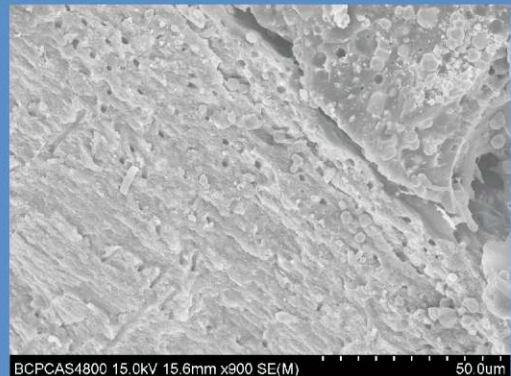
WHAT KIND OF FILLING DO YOU WANT?



Chemical Bonding **C-Root SP** Remineralization of Dentinal Tubules



By Dr. Sun Yi , C-Root SP



Is It Still Your Choice?



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