

# Irrigate, Activate, Evaluate

*Recommended Treatment Protocol  
For Any Irrigation Procedure*



# Treatment Guidelines

Endocator, VistaApex Solution's newest endodontic family member, is a device that offers a convenient and reliable way to evaluate canal cleanliness. When paired with our Irrigation Protocol, VIP Tips and EndoUltra® Cordless Ultrasonic Activator, the result is a simple and effective treatment protocol.

## Irrigate

Simplify Endodontic Irrigation - a color coded protocol for clinical confidence

### Preferred Irrigation Protocol:

The combination of **Chlor-XTRA™** and **SmearOFF™** is a safe, simple, and effective irrigation system. When used together, no additional rinsing is required, giving you a 3-step solution that saves time.



Steps 1 & 3

Step 2

**Chlor-XTRA** is a 6% Sodium Hypochlorite solution that has been enhanced with wetting agents and surface modifiers, to improve penetration into lateral canals and isthmuses.

**SmearOFF** is a two-in-one EDTA/Chlorhexidine formula that is safer and more effective in removing inorganic debris.

### Instructions:

1. Fill syringes with Chlor-XTRA (12mL recommended) and SmearOFF (3-6mL recommended), and attach VIP Tip irrigating tips
2. Irrigate with Chlor-XTRA as needed for debridement during instrumentation
3. Remove smear layer with SmearOFF
4. Irrigate again with Chlor-XTRA for further debridement
5. Dispose of syringes and irrigating tips after use

### Conventional Irrigation Protocol:

The standard protocol for tissue dissolution, smear layer removal, and canal cleanliness includes **Sodium Hypochlorite** for irrigation and debridement and **EDTA** to remove the smear layer.

### Instructions:

1. Fill syringes with 3% or 6% Sodium Hypochlorite to speed tissue dissolution, and attach VIP Tip irrigating tips and irrigate with Sodium Hypochlorite as needed during instrumentation
2. Remove smear layer with EDTA 17% Solution
3. Rinse with sterile water or alcohol
4. Irrigate with 3% or 6% Sodium Hypochlorite
5. Dispose of syringes and irrigating tips after use



Step 1



Step 2



Step 3



Step 4

# Your Total Tip Solution

## VIP Tip



Dual side port

This universal irrigating tip can be used for all endodontic irrigating procedures. The dual port allows irrigants to be expressed out the sides of the tip for increased safety and efficacy. Tips include a silicone stopper for depth reference and have enhanced flexibility for improved canal navigation. A stainless-steel shoulder provides zero flow impedance and maximum visualization, and a Secure-Lock™ hub that provides reliable syringe attachment.

**VIP Tips** are available in two lengths, 17mm and 27mm, which offer a choice of working lengths, eliminating the need for stocking many variations.

Scan here to view our complete line of our Endodontic Irrigants and Solutions.



# Activate

**EndoUltra Cordless Ultrasonic Activator** produces ultrasonic tip frequency of up to 40,000 Hz, in a compact, easy-to-use, cordless handheld device. EndoUltra creates acoustical streaming and cavitation to effectively clean, penetrate, and remove vapor lock. This results in better penetration of irrigants throughout the canal, and reduces treatment time.

## Instructions:

1. Thread activator tip onto handpiece
2. Tighten the tip with supplied tip wrench, bend tip to desired angle
3. Prepare canal to a fully tapered shape
4. Irrigate as usual, filling the pulp chamber with your preferred irrigation solutions
5. Insert the tip into the first canal and press ON/OFF button to activate tip
6. Move activator tip up and down using a small (2-3mm) vertical motion, maintaining a distance of 2mm from working length
7. Activate intracanal solution for 30-60 seconds for optimal canal cleanliness
8. Press ON/OFF button to turn off
9. Aspirate to remove any remaining debris from the canals

## Maintenance & Care:

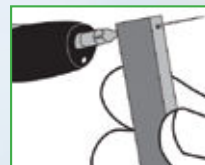
- EndoUltra tips can be autoclaved prior to use
- Can withstand autoclave at 132°/0.22 MPa for 3 minutes



## Tip Installation Instructions:



Hand thread tip onto handpiece. Tighten with wrench until tip no longer spins (do not overtighten)



Slide tip through wrench hole until it stops



Bbend tip to desired angle (70° - 90° for best results)

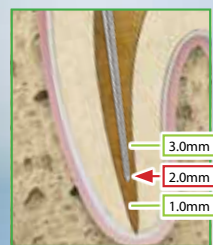
## Technique Instructions:



Pulp chamber and root canals cleaned and shaped.



Irrigate chamber



Insert Activator tip

# Evaluate

**Endocator®** is the first and only device that detects residual contamination invisible to microscopes and radiographs. It enhances root canal treatment by delivering a canal cleanliness score in 10 seconds. Endocator is cordless, compact, and easy-to-use, making it the perfect chairside tool to help assess the cleanliness of your root canal treatments.

High Endocator readings means that there are still high levels of debris (e.g. remanent bacteria and/or pulp tissue) in the sample and that additional cleaning is suggested to better debride the canal system.

Numerous studies support the safety and efficacy of Endocator. One vitro evaluation was conducted to quantify canal cleanliness following the use of Endocator ([Nagesh 2025](#), [Singh 2024](#), [Gambarini 2024](#) and [Nagesh 2024](#)). Scan the QR code below for links to the full articles.



## Easy to Use

1. Rinse the canals with sterile water
2. Aspirate and inject a sample into the Endocator Test Swab
3. Insert the swab fully into the test tube and shake to dissolve the reagent
4. Insert the test swab into the Endocator and press Test to get a reading in 10 seconds

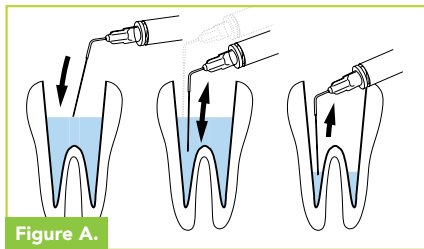


Figure A.

Collect the sample as close as possible to mid-root, not at the apex.

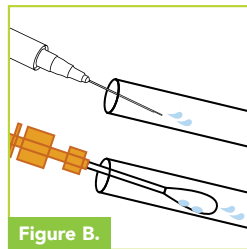


Figure B.

Use absorbant tip of the Test Swab to soak up the sample.

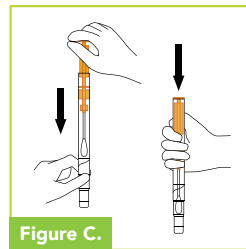


Figure C.

Insert Swab into tester.

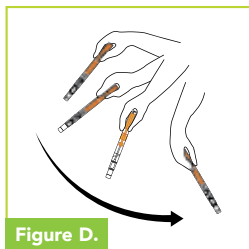


Figure D.

Flick, shake, or tap the tester tube against the table.



Figure E.

Insert the Test Swab into the device.



Figure F.

Press the Test button to obtain your Endoscore.



Scan here to learn more about Endocator

