



## ENDURA-KT™ Injectable

(Tetracaine 0.2%, Lidocaine 0.4%, Epinephrine 1:250,000)

- Endura-KT contains two components, that when combined, reconstitute into a preservative-free, patented local anesthetic compound. Endura-kit consists of one pre-loaded Luer-Lock syringe containing 0.2ml of Epinephrine 1:1000 and one vial containing 50ml of Tetracaine and Lidocaine. Combining these two components results in a solution of 0.2% Tetracaine / 0.4% Lidocaine with Epinephrine 1:250,000. Maximum recommended dose is 1.5ml/kg IBW.<sup>1</sup>
- Endura-KT may be suitable for a variety of surgical procedures for longer acting local incisional infiltration as well as for longer acting regional anesthesia with peripheral nerve blocks and fascial plane blocks. The low toxicity of this combination, due to the dilute concentration of the components, allows for higher volume dosing for volume/plane blocks to ensure full coverage of affected nerves.<sup>2,3</sup>

### About Endura-KT™

**Tetracaine** is an amino-ester class local anesthetic. Clinicians have used it for a variety of purposes in the US since the early 1930s. A 0.2% concentration of Tetracaine is not neurotoxic and produces minimal motor blockade, allowing longer and more complete sensory blockade, which is ideal for post-operative analgesia. Tetracaine is immediately metabolized in contact with blood, ameliorating risks associated with unintentional intravascular injection and therefore carrying minimal risk.<sup>3</sup>

**Lidocaine** is an amino-amide and was approved as a local anesthetic in the U.S. in 1948. It has a long record of safety and efficacy and is administered millions of times each year in the U.S. It is often administered in formulations combined with Epinephrine. It is both common and effective to combine local anesthetic with different onset times and durations to achieve better performance for patients.<sup>2,8,9</sup>

**Epinephrine**, at the 1:250,000 level, has greater direct alpha-2 effects than traditionally understood vasoconstrictive effects, with similar pharmacodynamics in terms of K<sup>+</sup> channel gating effects and trans-compartmental movement of local anesthetic within the neuron. All of this contributes to the observed extended duration of sensory blockade by the combination product.





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- There is a demand for non-opioid pain control after surgery.<sup>4,5</sup>
- The primary goal for adequate pain relief after surgery is to increase the patient's level of comfort with the least amount of side effects. This approach will allow for completion of important tasks such as **early ambulation** and **range of motion**, and will subsequently result in **decreased postoperative complications**.<sup>6,7</sup>
- The benefits of receiving opioid-free pain relief may lead to patients **experiencing little to no risk of developing opioid tolerance** or addiction as well as avoiding opioid related side effects. Minimizing opioid use, particularly in the setting of an Enhanced Recovery After Surgery, has been shown to **decrease hospital length of stay** after numerous procedures.<sup>5,7</sup>

Endura-KT is not recommended for topical use or for spinal anesthesia.

This product is an off-label use of two long available and very safe anesthetics.

“Medications can only be ordered by healthcare providers when it is determined the product is clinically significant over other commercially available products”

**Directions for Use:**  
For use after dilution. See insert. Treatment should be initiated under the direction of a qualified practitioner. Keep final mixed product refrigerated and protect from light until ready to use.

## ENDURA-KIT

### Kit Contains:

Preservative-Free Epinephrine Injection, USP (0.2mg/0.2mL) Sterile Injection Syringe (0.2mL)  
Preservative-Free 0.4% Lidocaine HCl with 0.2% Tetracaine HCl Sterile Injection Vial (50mL)  
Alcohol Prep Pad  
18G 1" Needle  
Green Transfer Label Sticker  
Directions For Use Insert

Kit contains compounded drugs from:

NUBRATORIX  
381 Van Ness Ave #1507  
Torrance, CA 90501 USA  
1-800-448-8365

**Office Use Only. Not for resale.**  
Store at 2°C to 8°C (36°F to 46°F)  
[see USP Refrigerated Storage]

**Report adverse events to**  
[www.fda.gov/medwatch](http://www.fda.gov/medwatch)  
and 1-800-FDA-1088



<p>Each mL contains lidocaine HCl, USP 4mg; 2mg tetracaine HCl; 7.7mg sodium chloride. Water for injection. Sodium hydroxide may be present for pH adjustment.</p> <p><b>Directions for Use:</b> For epidural, subcutaneous, soft tissue infiltration, major and minor regional nerve blocks, and intrarticular injection.</p> <p><b>NOT for obstetric, spinal, topical or intravenous use.</b> Treatment should be initiated under the direction of a qualified practitioner.</p> <p>This is a compounded drug. Office Use Only. Not for resale.</p>	<p><b>50 mL Single Use Vial</b> NDC 71300-6622-5 <b>Preservative-Free</b></p> <p><b>0.4% LIDOCAINE HCl with 0.2% TETRACAINE HCl injection, USP</b></p> <p><b>200mg / 100mg / 50mL (4mg/2mg/mL)</b></p> <p><b>Sterile Injection</b></p> <p> NUBRATORIX RX RX Only</p>	<p>Store at 2° to 8°C (36° to 46°F) [see USP Refrigerated Storage]</p> <p><b>Do not use if solution is discolored or contains a precipitate. Discard unused portion.</b></p> <p>Report adverse events to <a href="http://www.fda.gov/medwatch">www.fda.gov/medwatch</a> and 1-800-FDA-1088.</p> <p> NUBRATORIX RX 381 Van Ness Ave #1507 Torrance, CA 90501 USA 888-448-8365</p>
<p>Store at 2° to 8°C (36° to 46°F) [see USP Refrigerated Storage]</p> <p><b>Do not use if discolored or precipitated. Protect from light.</b></p> <p><b>Store syringe in carton.</b></p> <p>This is a compounded drug. Office Use Only. Not for resale.</p> <p>Compounded by:  NUBRATORIX RX 381 Van Ness Ave #1507 Torrance, CA 90501 USA 1-888-448-8365</p>		<p><b>0.2 mL Single Use Syringe</b> NDC 71300-6624-2</p> <p><b>EPINEPHRINE INJECTION, USP</b> <b>0.2mg/0.2mL (1mg/mL)</b></p> <p><b>Sterile Injection</b></p> <p>RX Only <b>Preservative-Free</b></p>

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