Description

**Buprenorphine SR™ Lab** is a patented injectable, sustained-release polymer system designed to release buprenorphine over a 72-hour period and available by prescription only.

**Key Features of Buprenorphine SR™ Lab**

- Provides sustained release delivery of buprenorphine in a fully biodegradable liquid polymer matrix
- Provides therapeutic blood levels of analgesia for perioperative and postoperative use (based on published studies)¹ ²
- Formulation can be injected subcutaneously through needles as small as 23 gauge.

**How Supplied and Storage**

- Following quality control and stability studies it has been determined that the Buprenorphine SR LAB formulation does not require refrigeration.
- Upon receipt of your Buprenorphine SR LAB vial, it can now be stored at room temperature and will retain its stability through the labeled expiry date.

**FAQ’s Regarding Optimal Administration**

**What are the recommended dose rates for various species?** *

<table>
<thead>
<tr>
<th>Species</th>
<th>Dose Rate (mg/kg)</th>
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<tbody>
<tr>
<td>Laboratory Rats</td>
<td>1.0 - 1.2 mg/kg*</td>
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<tr>
<td>Laboratory Mice</td>
<td>0.5 – 1.0 mg/kg*</td>
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* Dose rates are above based on clinical research experience and formal studies. If administering Buprenorphine SR for the first time, it is suggested that initial dose determination be based on lowest dosing recommendations. Practitioners and clinicians should rely on their professional knowledge and judgment when prescribing Buprenorphine SR.

§ Please be aware that while this novel Buprenorphine SR Lab formulation has been developed specifically for use in some laboratory species, skin reactions may occur in select strains of mice and rats. If so, we recommend that you discontinue use of the Buprenorphine SR Lab.

**Should the Buprenorphine be stored and administered at room temperature for use?**

Yes, the Buprenorphine SR Lab can be stored, drawn up and injected at room temperature. It has also been determined that using a slow injection technique, decreases animal discomfort (i.e. stinging) during administration.

**PLEASE NOTE:** While the Buprenorphine SR LAB formulation no longer requires refrigeration, our standard Buprenorphine HCl SR formulations (available in 1 mg/ml, 3 mg/ml, 10 mg/ml concentrations) STILL REQUIRE REFRIGERATION.

**Are there any other helpful injection guidelines I should follow?**

Some helpful guidelines are:

1. While the formulation can be injected through needles as small as 23 gauge, it is recommended that a larger needle (16 gauge to 18 gauge) be used to draw-up the Buprenorphine SR Lab from its vial. This makes syringe loading easier and minimizes loss in handling.
2. Once the required volume has been loaded into your injection syringe, simply remove/replace the larger needle with the desired smaller-gauge needle before administration.
3. Follow recommended US National Institutes of Health guidelines for subcutaneous injections in mice:
   - Restrain the mouse by the scruff method. Use your thumb and forefinger to make a tent of skin over the scruff.
   - Prep the area with 70% ethanol.
   - Insert the needle, bevel up, at the base of the tent. The needle should be inserted parallel to the skin and should be directed toward the posterior of the animal.
   - Aspirate to ensure proper placement and inject the material.

**What is the shelf life for Buprenorphine SR?**

As ZooPharm is a compounding pharmacy, expiry dates for lots will vary. Typically vials of Buprenorphine will expire 10-12 months from the date of purchase. To find expiry date of the specific lot you will receive, ask our staff when placing your order.

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**REFERENCES**


2. Catbagan DL; Quimby JM; Mama KR; Rychel JK; Mich PM Comparison of the efficacy and adverse effects of sustained-release buprenorphine hydrochloride following subcutaneous administration and buprenorphine hydrochloride following oral transmucosal administration in cats undergoing ovariohysterectomy. AJVR, Vol 72, No. 4, April 2011, 461-466

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