LIMENCIN- lidocaine and menthol patch
Alexso Inc.

Disclaimer: Most OTC drugs are not reviewed and approved by FDA, however they may be marketed if they comply with applicable regulations and policies. FDA has not evaluated whether this product complies.

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Limencin Patch

Active ingredients:
Menthol 4%

Purpose
Topical Analgesic

Active ingredients:
Lidocaine 4%

Purpose
Topical Anesthetic

Uses:
For the temporary relief of minor aches and muscle pains associated with arthritis, simple backache, strains, muscle soreness and stiffness.

Warnings:

▪ Only for external use. Use only as directed or by a health professional.
▪ **Do not use:** on open wounds, cuts, damaged or infected skin as well as in the eyes, mouth, genitals, or any other mucus membranes.
▪ Do not cover with bandage.
▪ **Keep out of reach of children.** Consult physician for children under 12.
▪ **Consult your physician:** if pregnant or pain persists or worsens.

Directions:
Adults and children 12 years and over: Apply patch to affected area 1 to 2 times daily or as directed.

Instruction for Use:

▪ Clean and dry the affected area
▪ Open pouch and remove one patch
▪ Remove any protective film and apply directly to affected area of pain
▪ Wash hands with soap and water after applying patch
▪ Reseal pouch containing unused patches after each use
Other Ingredients:
Water, Glycerine, Sodium Polyacrylate, Polysorbate 80, Citrus Medica Limonum (Lemon) Peel Oil, Aloe Barbadensis Leaf (Aloe Vera Gel) Juice, EDTA Disodium salt, Diazolidinyl Urea, Methylparaben, Iodoproylnyl Butylcarbamate, Propylparaben.

Patient Medication Information

This topical pain relief patch was recently reformulated by pharmacists who specialize in pain management. Natural ingredients have been added to these patches for a better, more refreshing scent. Scientific studies have shown that both ingredients used in this product significantly reduce pain and inflammation. A combination of ingredients with analgesics and anesthetic properties are used in a unique way to maximize its pain relieving effects and to aid in addition to other therapies. This offers long lasting relief for a variety of pain conditions. Limencin Patch is manufactured in accordance with FDA regulations by an FDA approved manufacturer.

Mechanism of Action:
Menthol has some local anesthetic and counterirritant qualities and also acts as a weak kappa opioid receptor agonist making it an analgesic as well. Its ability to chemically trigger the cold-sensitive TRPM8 receptors in the skin is responsible for its cooling sensation when applied to the skin. Lastly, it enhances the efficacy of other topical applications by increasing penetration via vasodilation.

Lidocaine is a common local anesthetic that relieves itching, burning, and pain. Topically, it blocks both initiation and conduction of nerve impulses by decreasing ionic flux through the neuronal membrane. Since it penetrates the skin, it creates an anesthetic effect by not just preventing pain signals from propagating to the brain, but by stopping them before they begin.

Benefits:
The use of this topical medication, Limencin Patch, over other oral options for pain relief can benefit patients in many different ways. Conventional therapies using opioids (hydrocodone, hydromorphone, morphine, oxycodone) can cause systemic adverse effects such as constipation, drowsiness, dizziness, lightheadedness, nausea, vomiting, sedation, and/or confusion. NSAIDs (ibuprofen, naproxen) can increase cardiovascular risk, decrease platelet aggregation, and cause gastrointestinal bleeding or ulcers. Other classes of medications such as antidepressants (nortriptyline, duloxetine) or anticonvulsants (gabapentin) also come with its costs and side effects. Limencin Patch acts only locally since it penetrates the skin and not into the bloodstream. In addition, patients can have one or multiple disease states including renal or hepatic dysfunction which can prevent them from taking ibuprofen (Advil) or acetaminophen (Tylenol) respectively. More importantly, this patch gives physicians an option to provide effective pain relief treatment while avoiding the addictive properties of conventional oral medications. It can also be supplemented with other topical pain lotions. In addition, it avoids messy application and reduces risk of getting ingredients in eyes or other mucous membranes.

Product Information and Data:
Pharmacists that have been in the field of pain management for many years used research from all parts of the world to carefully formulate this patch in order to maximize its pain relieving properties. Skin penetrating mixtures have also been added to enhance rapid absorption of the active ingredients through
the skin to allow deeper penetration into the muscles, joints, and nerves. Lidocaine patches for therapy of neuropathic and non-neuropathic pain was concluded “to be an effective and safe option for add-on therapy” (Nervenarzt, 2010) in a clinical case series using 87 patients. iv Another study in 2010 concluded that a single 8 hour application of a combination patch of menthol provided significant pain relief associated with mild to moderate strains when compared to a placebo patch. v The use of these pharmaceutical and natural components provides more pain relief and makes the patch a new way to address pain. These ingredients comply with The Chronic Pain Medical Treatment Guidelines and the ACOEM guidelines for pain management. vi Page 111 of the Chronic Pain Medical Treatment Guidelines concludes that topical analgesics are “primarily recommended for neuropathic pain when trials of antidepressants and anticonvulsants have failed (Namaka, 2004).” In addition to this, “these agents are applied locally to painful areas with advantages that include lack of systemic side effects, absence of drug interactions, and no need to titrate (Colombo, 2006).” This product is “recognized as safe and effective” because it meets all conditions of the CFR. vii Limencin Patch complies with The Chronic Pain Medical Treatment Guidelines and the ACOEM guidelines for a variety of pains mentioned above viii

Adverse Reactions

Even though adverse reactions are rare, a very small percentage of patients experience an unpleasant burning sensation, redness, warmth, or stinging. Please be aware of any unpleasant side effects as described. If any of these effects persists or worsens, contact your physician or pharmacist immediately. This medication is not absorbed systemically but if any serious side effects (i.e. rash, itching/swelling, severe dizziness) are experienced, discontinue use immediately and contact your pharmacist or physician. This is not a complete list of all side effects that may occur. You may report side effects to the FDA at 800-FDA-1088 or at http://www.fda.gov/medwatch

Warnings and Precautions

• For external use only. Use only as directed or by a health professional.
• Do not use: on open wounds, cuts, damaged or infected skin as well as in the eyes, mouth, genitals, or any other mucous membranes.
• Do not cover with bandage.
• Consult your physician: if pregnant or if pain persists and/or worsens
• Consult your physician: if pain persists or worsens or if using any other topical pain products.
• Store in a dry, cool place

Keep Out of Reach of Children

Consult physician for children under 12 years.

Overdosage

In Case of Ingestion or Overdose, get medical help or contact a Poison Control Center (800-222-1222) right away.

References

i. Dunteman E. Targeted peripheral analgesics in Chronic Pain Syndromes. Practical Pain Management 2005; July/August: 14-25


**Principal Display Panel – Carton Label**

**Drug Facts**

**Active Ingredients:**

- Lidocaine 4%

**Purpose:**

Topical Analgesic

**Uses:**

- For the temporary relief of minor aches and muscle pains associated with arthritis, simple backache, strains, muscle aches and stiffness.

**Warnings:**

- Only for external use. Use only as directed by a health professional.
- Do not use on open wounds, cuts, damaged or infected skin as well as in the eyes, mouth, genitalia, or any other mucous membranes.
- Do not use on children.
- Consult your physician if pregnant or pain persists or worsens.

**Directions:**

Adults and children 12 years and over: Apply patch to affected area 1 to 2 times daily or as directed.

**Other Ingredients:**

- Aloe Vera,
- Menthol
- Propanolol
- Lidocaine

**Manufactured for:**

Alexso, Inc.

2317 Cotner Avenue

Los Angeles, CA 90064

**Limencin Patch**

Topical Pain Patch

_for long lasting relief_

NDC 50488-1201-1

Qty: 10 Articulated Patches

(5 per Resealable Pouch) x 2

Manufactured for:

Alexso, Inc.

2317 Cotner Avenue

Los Angeles, CA 90064
LIMENCIN
lidocaine and menthol patch

Product Information

Product Type | Item Code (Source) | NDC: 50488-1201
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HUMAN OTC DRUG | TOPICAL

Route of Administration

Active Ingredient/Active Moiety

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Inactive Ingredients

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Marketing Information

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