

TECHNICAL SHEET



HUMCO Compounding
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HUMCO™ SALTSTABLE LS™ ADVANCED COMPOUNDING BASE

1. General Information

Humco's SaltStable LS™ Advanced is a scientifically advanced, extremely durable, robust and versatile transdermal cream base formulated with a silogel that provides a smooth, silky, dry feel upon application. Designed for all classes of active ingredients, irrespective of salt form, it exhibits superior API carrying capacity of multiple actives in one formulation. SaltStable LS Advanced demonstrates excellent emulsion stability without the need for added stabilizers.

2. Characteristics

Humco™ SaltStable LS™ Advanced Physical Properties	
pH	7.1 - 7.5
Physical Form	Off-White Heavy Water-in-Oil Cream Emulsion
Specific Gravity	0.9 g/mL
Viscosity	800,000 - 1,200,000 cps
Transdermal Penetration	Very Good
API Compatibility	Many API's and their Salt Forms, both Hydrophilic and Lipophilic; Maximum Capacity: Total API Loading 40%

3. Composition

Purified water, mineral oil, cetareth-20, cetearyl alcohol, poloxamer 407, phenyl trimethicone, magnesium aluminum silicate, C30-45 alkyl cetearyl dimethicone crosspolymer, aloe barbadensis leaf extract, dimethicone, phenoxyethanol, hydroxyethyl acrylate/sodium acryloyldimethyl taurate copolymer, vitamin E acetate, propylene glycol, isopropyl palmitate, lecithin, diazolidinyl urea, ethylhexylglycerin, methylparaben, propylparaben.

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4. Features

- Increased stability with high percent of API's and multiple actives
- Validated *in vitro* transdermal vehicle can contain up to 8 actives in one formula
- Less sticky and less tacky because of the silogel (silicone based organogel) component
- Off-white cosmetically elegant cream
- Time Saving: Ready-to-use base, no need for added wetting agents or thickeners

5. Examples of Compatible Active Pharmaceutical Ingredients

Baclofen	1 – 5 %
Bupivacaine	0.2 – 1 %
Clonidine	0.2 – 1 %
Cylcobenzaprine	1 – 5 %
Diclofenac	2 – 10 %
Flurbiprofen	2 – 10 %
Gabapentin	2 – 10 %
Ibuprofen	1 – 5 %
Ketamine	2 – 10 %
Lidocaine	2 – 10 %
Pentoxifylline	1 – 5 %
Verapamil	2 – 10 %

6. Applications

- Pain prescriptions
- Sports medicine
- Veterinary medicine

7. Typical Formulas

Transdermal Penetration Formula

Ketamine HCl..... 5%
Gabapentin 10%
Clonidine HCl..... 0.2%
Baclofen..... 2%
SaltStable LS™ Advanced.....q.s. 100%

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Alternative Pain Formula

Diclofenac Sodium	2%
Ibuprofen	3%
Pentoxifylline.....	3%
Verapamil HCl.....	10%
SaltStable LS™ Advanced.....	q.s. 100%

8. General Modus Operandi

- Weigh and measure the API's.
- Add SaltStable LS Advanced to unguator jar.
- Add the active ingredients to unguator jar and mix for 5 minutes at 1000 rpm; if desired, pre-disperse the actives with Aloe vera, Dimethicone, Mineral oil or Vitamin E to form a paste.

9. Incompatibilities

- Incompatible with high levels of hydrophilic active pharmaceutical ingredients.

10. Proper Use and Storage

For External Use Only

Store in a Cool Dry Place; Protect from freezing

11. Studies

90 Days BUD Baclofen 2% in SaltStable LS Advanced. Final Report; Humco Compounding, Austin, TX.

90 Days BUD Bupivacaine HCl 1% in SaltStable LS Advanced. Final Report; Humco Compounding, Austin, TX.

90 Days BUD Diclofenac Sodium 3% in SaltStable LS Advanced. Final Report; Humco Compounding, Austin, TX.

90 Days BUD Ibuprofen 3% in SaltStable LS Advanced. Final Report; Humco Compounding, Austin, TX.