



Niosome Cream Base

Catalog Number B4510

Spectrum Pharmacy Products introduces niosome-forming compounding bases for enhanced absorption of commonly compounded APIs. These bases offer unique biochemical and physical characteristics not exhibited by traditional liposome emulsions, including improved transdermal absorption of active pharmaceutical ingredients (APIs) into the patient's system, and a more stabilizing encapsulation for a range of drug types.

Why Choose Niosome Cream Base?

- Smooth Texture and provide less oily feel than liposomes
- Enhanced rate and extent of adsorption of common API's
- Capable of entrapping hydrophilic, lipophilic and amphiphilic API's in the Niosome

Niosome Cream Base Properties:

pH	4.0 – 8.0
Specific Gravity	0.90-1.10 g/mL
Viscosity	60,000 cps
Physical Format	Light Cream
Color	Off-white
Transdermal Penetration	++++
API Compatibility	Hydrophilic 10%, Lipophilic 10%, Amphiphilic 10% Total API Load 20%
Typical Applications	Dermatology, Pain Management, Sports Medicine, Veterinary Medicine

Niosome Cream

Niosome Cream offers Niosome technology-enhanced transdermal base, promoting more rapid and extensive transdermal absorption than traditional liposomal bases. Designed with stable emulsion to protect from API degradation. Smooth texture and less greasy than liposome bases.

Sample Formulas

Amlodipine Besylate Transdermal:	Pain Management Cream:	Bupivacaine Hydrochloride Cream:
Amlodipine Besylate 0.25% Niosome Cream qs 100%	Gabapentin 6% Ketoprofen 10% Lidocaine 10% Ethoxy Diglycol 10% Niosome Cream qs 100%	Bupivacaine Hydrochloride 1% Ethoxy Diglycol 5% Niosome Cream qs 100%



Item No.	NDC No.	Size
B4510-1LB	49452-0864-01	1 LB
B4510-8LB	49452-0864-02	8 LB
B4510-40LBBL	49452-0864-03	40 LB

What Are Niosomes?

Spectrum's niosome bases serve as biochemical carriers for compounded drugs, helping the APIs to absorb through the skin. Traditional bases typically form liposomes, or spherical lipid bilayers, that surround a drug molecule and help in transdermal delivery. Niosomes are structurally similar to liposomes but due to different biochemical makeup offer potentially significant improvements, including:

- Enhanced rate and extent of absorption of common API
- Simpler preparation from non-ionic single-chain surfactants and cholesterol
- Increased stability of entrapped drug versus liposome
- Better compatibility with biological systems and low toxicity due to their non-ionic nature
- Broader drug class accommodation including hydrophilic lipophilic and amphiphilic drugs
- Less oily feel than liposome
- Improved therapeutic performance
- Increased bio-availability into the system
- More controlled delivery to target cell