

Versatility. Permeation. Elegance.

Scientifically Proven Moisturizer



BASES

VERSAPRO™ CREAM BASE



With its great carrying capacity and excellent emollient characteristics, MEDISCA's **VersaPro™ Cream Base** is ideal for both pharmaceutical and cosmetic purposes. Its versatility relates in part to its increased pH stability and excellent compatibility with a wide range of active pharmaceutical ingredients. This unique oil-in-water emulsion is non-greasy, non-irritant and paraben-free. **VersaPro™** is a highly moisturizing cream formulated with excellent penetrating properties.

FEATURES & BENEFITS

SCIENTIFIC DATA	<ul style="list-style-type: none"> – Increased permeation of Progesterone through the skin (<i>DPSI, January 2010</i>) – Validated Beyond-Use-Dates (BUDs) Available – Scientifically Classified as an All-Day Moisturizer
API COMPATIBILITY	For lipophilic and hydrophilic drugs (hormones, analgesics, etc.)
APPEARANCE	White, smooth, versatile cream
INTENDED USE	<ul style="list-style-type: none"> – Pharmaceutical : Highly penetrating transdermal delivery vehicle – Cosmetic : Non-comedogenic moisturizer containing Vitamin E and Aloe Vera
pH STABILITY	pH 2 to 12
TOLERANCE TO API BASE & SALT FORMS	Excellent
APPLICATION TO MUCOUS MEMBRANES	Yes
HEAT SENSITIVITY	Stable at 45°C (113°F)
PRESERVATIVE EFFECTIVENESS	Passes USP microbial challenge test <51>



SUPERIOR PERFORMANCE OF VERSAPRO™ COMPARED TO COMPETITOR'S CREAM BASE

INTRODUCTION

Realizing the critical role of drug penetration and skin retention involved in transdermal applications, MEDISCA has taken a unique approach towards formulation development by testing and comparing its products to today's leading cream bases. To achieve this goal, MEDISCA partnered up with Dow Pharmaceutical Sciences Inc. (DPSI), a topical product development company with 25+ years of experience interpreting *in vitro* data. DPSI specifically studied the *in vitro* percutaneous absorption of (¹⁴C)-Progesterone from nine transdermal delivery vehicles, including MEDISCA's own **VersaPro™ Cream Base**. The study was conducted by using the Bronaugh flow-through diffusion cell method (see *Figure 1*) and human excised skin from a single Caucasian female donor following elective abdominal surgery. In fact, results from *in vitro* studies using this particular tissue preparation are typically less variable and more reproducible than *in vitro* studies using human cadaver skin preparations.



Figure 1. Bronaugh Flow-Through Cells. 2010 DPSI. Available at www.dowpharmasci.com

METHODS

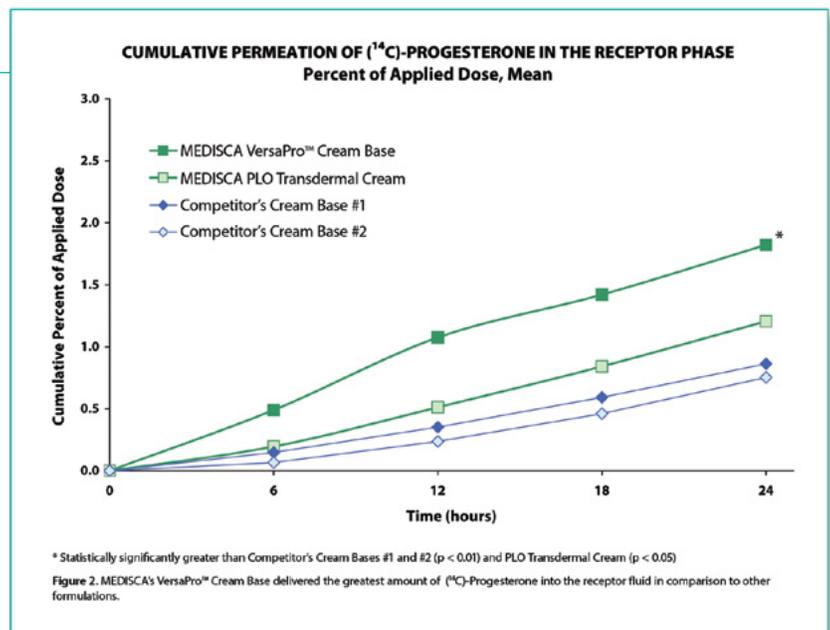
All formulations evaluated in this study were equally spiked with sufficient (¹⁴C)-Progesterone to achieve a nominal formulation dose of 1.0µCi/3.2mg per diffusion cell, which corresponds to a topical application of 5mg formulation per cm² of tissue. This clinically relevant dose was dispensed onto dermatomed skin tissue (0.028 ± 0.004 inches), and was left undisturbed for a 24-hour exposure period. The 54 flow-through diffusion cells were maintained at a constant temperature of 32°C by use of recirculating water baths. Fresh receptor phase buffered solution was continuously pumped under the tissue at a flow rate of 1.0mL/hr and collected in 6-hour intervals. Over the 24-hour period, the amount of (¹⁴C)-Progesterone residing in the receptor phase samples was quantified using liquid scintillation analyzing techniques to determine the cumulative permeation of (¹⁴C)-Progesterone.

RESULTS

Following a 24-hour period, MEDISCA's **VersaPro™ Cream Base** delivered significantly more (¹⁴C)-Progesterone relative to the Competitor's Cream Bases and PLO Transdermal Cream (1.82% of the applied dose).

In addition, **VersaPro™ Cream Base** displayed a more rapid rate of (¹⁴C)-Progesterone delivery over the exposure period.

DISCLAIMER : For prescription compounding. MEDISCA makes no representations and takes no responsibility for the clinical or therapeutic use of this product with or without active ingredients. The pharmacist is hereby advised to use this product in accordance with a licensed prescriber's prescription. MEDISCA cannot be held liable to any person or entity concerning claims, loss, or damage caused by, or alleged to be caused by the use or misuse of the information contained in this suggested product information sheet. The results indicated herein are based upon an independent laboratory study (at DPSI) of comparative skin penetration via percutaneous absorption using excised human skin obtained from elective surgery. No claims or representations are made concerning the uses or advantages of these formulations in the therapeutic setting. Their uses are at the sole discretion and professional judgement of the health care practitioner.



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