

# NeuSkin™ -FS

## Silver Sulphadiazine Microspheres Impregnated Type I Collagen Membrane For Infected / Contaminated Burns And Wounds

### Introduction

Surgeons who treat Burns and Trauma etc. face a real challenge in closing the raw areas due to non-availability of adequate Donor areas. It is for this reason, Biological Skin Substitutes have been evolved which come very handy for the Surgeons to manage the raw areas efficiently and to reduce the mortality and morbidity associated with Burns and Wounds. Among the Biological skin Substitutes Collagen Dressings have been widely established as an effective dressing for Burns and Wounds because of the easy commercial availability in sterile usage conditions in convenient sizes.

An attempt has been made to offer the Collagen based dressing in a transparent film form impregnated with SSD loaded alginate microspheres to deliver SSD in a controlled fashion, to control infection for an extended time period with lesser dressing frequencies and to enable easier assessment of Burn Wound Healing. The in-vitro release studies confirm the release of SSD up to 6 days. There is a 40% release on the first day of application and for the remaining days, the release is above MIC value with *Pseudomonas aeruginosa* used as a reference standard. This concept has come very handy for Burn surgeons in treating infected and contaminated burns, using the same established Biological Dressing concept.

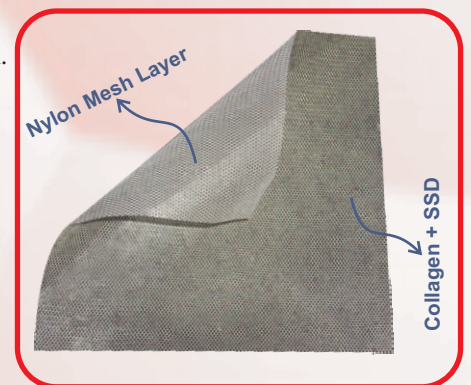
### Contents

Each **Neuskin™-FS** pack contains sterile Type 1 Collagen dry membrane of fish origin impregnated with 1% Silver sulphadiazine w/w USP as microspheres as per the label claim.

Sterilized by Ethylene Oxide.

### Salient Features

- ☞ Quick and easy application
- ☞ Controlled and sustained release of SSD upto 6 days
- ☞ Minimal dressing changes
- ☞ Biocompatible as per EN ISO 10993 Standards
- ☞ Non-toxic, non-allergenic, non-immunogenic and non-pyrogenic



### Collagen

Collagen is an extra cellular matrix protein playing a major role in connective tissue. It is the most abundant protein in humans and performs multiple functions. In fish, the largest concentrations of collagen is found in the skeleton, fins, skin, and air bladder. Collagen as a bio-material and its role in wound management is a well-documented subject. Collagen encourages wound healing through the deposition and organization of freshly formed fibers and granulation tissues in the wound bed and thus creating a very conducive environment to wound healing.

### Role of collagen in wound healing

- ☞ Stops bleeding (Hovig et al., 1968)
- ☞ Helps in wound debridement by attracting Monocytes (Postlewaithe and Kang, 1976)
- ☞ Provides a Matrix for Tissue and Vascular Growth (Kleinman et al, 1981a)
- ☞ Attracts Fibroblasts and helps in directed Migrations of cells (Dunn and Ebendal, 1978)
- ☞ Binds with Fibronectin, which promotes cell binding (Kleinman et al., 1981b)
- ☞ Supports growth (Morykwes et al., 1989), differentiation and migration (Emerman and Pitelka, 1977) of Keratinocytes
- ☞ Helps in deposition of oriented and organized fibres (Doillion et al, 1984), which increase the integrity of the tissue

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## Silver sulphadiazine

The best identified topical antibacterial agent to control infections in Burns and Wounds clinically is Silver sulphadiazine. It possesses a broad spectrum of activity against gram+ve and gram -ve bacteria as well as fungi. Its ability to be effective even at low concentration in reducing invasive early burn wound sepsis and burn wound injuries.

## Indications

- ☞ Partial thickness infected/contaminated Burn Wounds
- ☞ Skin Donor sites
- ☞ Trauma Wounds
- ☞ Chronic Wounds

## Application

- ☞ Clean application site in usual manner
- ☞ Place the SSD impregnated rough surface of the sheet facing the wound
- ☞ It is recommended to have a non-adherent secondary dressing followed by a light absorbent dressing over **Neuskin™-FS** after its firm placement on the wound
- ☞ For removal, simply lift off. If necessary, wet with saline solution prior to removal. Replace as required

## Precautions & Warnings

- ☞ Avoid on patients hypersensitive to collagen and fish products
- ☞ The product is not sterile if the packing is damaged
- ☞ **Neuskin™-FS** is single use product, which should not be resterilized
- ☞ Remove **Neuskin™-FS** if any allergy or irritation persists
- ☞ Avoid exposure to direct sunlight

## Storage

**Neuskin™-FS** can be stored in a dry place at or below 25°C with shelf life of 3 years from date of manufacture and expiry date is printed on the packaging. Do not use the products after expiry date. Do not expose the product to direct sunlight. **Neuskin™-FS** may change color overtime - This change does not impact product performance.

## Availability

5x5cm, 10x10cm, 15x15cm, 10x20cm, 15x30cm.

## Ordering Information

CODE	DESCRIPTION	UNITS
NFSS1002-05	Neuskin™-FS, 10cm x 10cm	Box of 5
NFSS1003-05	Neuskin™-FS, 15cm x 15cm	Box of 5
NFSS1004-05	Neuskin™-FS, 15cm x 20cm	Box of 5
NFSS1005-05	Neuskin™-FS, 15cm x 30cm	Box of 5



Manufactured by:

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*We create and surpass our own standards*

**NeuSkin™-FS** - Trade Mark under Registration in India.