Medline is pleased to introduce Puracol® Plus, an advanced native collagen wound dressing based on state of the art biomaterial science and technology. Puracol® Plus is predominantly Type I, bovine collagen.

Puracol® Plus offers a unique three-dimensional structure known as the MicroScaffold®.

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1.800.MEDLINE
www.medline.com

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Puracol is a registered trademark of Medline Industries, Inc.
MicroScaffold is a trademark of Medline Industries, Inc.
We reserve the right to correct any errors that may occur within this sales sheet.

References:
1 Sibbald RG et al. The Edge Effect: Current Therapeutic Options to Advance the Wound Edge. Advances in Skin and Wound Care, 20 (2) 99-117.
7 Picrosirius Assay on Nativity Assessment on Two Collagen Dressings. Simon SR, Chakravarthy D. Internal Report Puracol-012.
8 Physical Property Comparison of Two Collagen Dressings, Highly Native Collagen Compared to Denatured Collagen/ORC. Internal Report Puracol-013.

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Medline’s new Educational Packaging offers all the information you need, step-by-step, short and sweet, to help the Medline bandage do its job of healing. Please visit www.medline.com/ep/ to learn more.
PURACOL® PLUS Collagen MicroScaffold™ Wound Dressings

**Puracol® Plus** is a moist wound healing dressing that promotes natural healing.

Normal wound healing involves three specific, but overlapping phases:

- **Inflammatory**
  - The immune system cleanses the wound and eliminates pathogens.

- **Proliferation**
  - Collagen, elastin, and other components of the extracellular matrix (ECM) are secreted. Cells migrate and wound contraction and epithelialization occurs.

- **Maturation**
  - Collagen and ECM continues to reorganize, and remodeling of scar tissue occurs over many months after epithelialization is completed.

In normal healing, each stage progresses in a concerted fashion as described above. Moist wound healing dressings allow these processes to proceed with optimum speed.

Denatured versus native collagen and the MicroScaffold™

Denatured collagen, commonly used in some wound care products available today, is processed chemically to the extent that it has lost the sophisticated triple helix structure of the collagen building block. The preservation of the triple helix is essential in maintaining the proper complex architecture of skin collagen.

Analytical tests and microscopic techniques show that Puracol Plus has a high degree of retained triple helical structure (nativity) compared to other collagen-based products. Wound fluid is better absorbed in three-dimensional structures such as that found in Puracol Plus.

Puracol Plus is physically a more robust product compared to competitive collagen products, thus better able to remain intact on a wound dressing under conditions of pressure and friction.

|| Product | Puracol® Plus | Collagen/Oxidized Rerenged Cellulose |
|---------|-------------|-----------------------------------|
| Composition | 100% native collagen | Denatured collagen/Oxidized Rerenged Cellulose |
| Weight/area (mg/cm²) | 4.7 | 3.8 |
| Thickness of material (mm) | 1.97 | 2.92 |
| Tear strengths (cN) | 406.12 | 198.7 |
| Tear strengths/mm (cN/mm) | 206.2 | 68.3 |
| Absorbency (g/g) | 31.45 | 26.1 |
| Time to full absorbency (seconds) | 305 | 660 |

### Clinical Studies

A study on 33 wounds in 18 patients, over a 4 week period was performed.

- Combined potential response across categories of 73%
- 27% overall healing trajectory to closure
- 30% overall healing trajectory but no closure
- 15% initial healing trajectory (not sustained)
- 27% did not respond

"... native structure collagens employed in the dressing used manipulated the wound bed to the degree that in most cases partial to complete rebuilding of the skin structure was achieved."

The remarkable 73% response rate on severely chronic wounds led the clinician to write:

"... the usage of a minimally denatured collagen dressing may be a viable compliment to other wound care therapies in chronic non-responding lower extremity ulcers."

Twenty patients suffering from non healing wounds were treated with Puracol® Plus:

"The study showed among 20 patients that 83% responded positively over the course of the treatment with Puracol® Plus, proceeding to full closure in an average of 40.1 days. Over the study period 17% of the patients did not show a wound closure and two of these patients had an increase in wound size of 68% and 100%, respectively. The wound of the third patient was nearly closed after a treatment of 108 days. The non healers have been treated on an average of 106 days before they were taken off/dropped off the study. Adverse events were few, with local dermatitis type reaction seen in two of these twenty patients. Given the typical difficulty in healing expected in these chronic wounds with an average known chronicity period of 9.25 months, it is remarkable to be able to close these wounds with a 83% response rate."

### Ordering information

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<thead>
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<th>Item #</th>
<th>Description</th>
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<tbody>
<tr>
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<td>MSC8644</td>
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</tbody>
</table>

For more information on Puracol® Plus, please contact your sales representative or call 1.800.MEDLINE.
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Puracol Plus is physically a more robust product compared to competitive collagen products, thus better able to remain intact on a wound dressing under conditions of pressure and friction (table 1).

Table 1: Comparison of products

<table>
<thead>
<tr>
<th>Product</th>
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<tr>
<td>Composition</td>
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<td>Weight/area (mg/cm²)</td>
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