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GLYMATRIX™ Technology Fact Sheet

Product Information

GLYMATRIX™ Technology is a unique patented procedure used for developing EVOLENCE® that mimics the formation of the body's own collagen, an abundant protein found in connective tissue and skin that helps maintain skin strength, structure and support. As in the human body, which uses Glucose, a blood sugar, for stabilizing proteins to strengthen tissues (a process known as cross-linking), GLYMATRIX™ Technology uses the natural sugar D-Ribose to cross-link purified collagen molecules. The result is a "protein scaffold" that performs the same structural function as naturally occurring collagen – providing the skin with shape, support and strength – and with greater longevity than existing collagen fillers. EVOLENCE® is clinically proven to provide correction of moderate to deep facial wrinkles and folds through 12 months following initial treatment*.

The Production Process

There are four stages of the aseptic GLYMATRIX™ production process:

1. **Purification** – Naturally sourced porcine collagen is broken down into individual molecules using pepsin, a naturally occurring enzyme. At this stage any potentially immunogenic telopeptides, portions of a molecule that can cause allergic reactions, are removed. The naturally sourced porcine collagen is the most genetically similar to human collagen.
2. **Polymerization** – The purified collagen is then reconstituted into long chain molecules or 'polymers'. This reconstituted collagen does not yet possess the structural strength of natural collagen; these long chain molecules must be now be 'cross-linked' as they were in nature.
3. **Cross-Linking** – Next, the long chain molecules are reconstructed to form a three-dimensional collagen matrix by creating strong bonds between the polymerised collagen molecules. GLYMATRIX™ Technology uniquely deploys D-Ribose, a naturally occurring sugar, as the cross-linking agent in order to accurately mimic cross-linking in the human body.
4. **Sterility** – The GLYMATRIX™ collagen is then filled into sterile syringes, ready for use.

Benefits of GLYMATRIX™ Technology

GLYMATRIX™ Technology is the only technology capable of mimicking the way collagen is naturally cross-linked in the body. Through this unique process, EVOLENCE® is capable of smoothing facial wrinkles and folds. The GLYMATRIX™ process is designed to:

- Mimic naturally occurring collagen in the skin by creating a true structural framework with natural, durable cross-links to ensure filler longevity
- Provide consistent and predictable results
- Use natural ingredients for natural-looking results

About EVOLENCE®

EVOLENCE® is marketed in the United States by Ortho Dermatologics division of Ortho-McNeil-Janssen Pharmaceuticals, Inc. This game-changing collagen structural dermal filler was developed by ColBar LifeScience, Ltd., a biotechnology company specializing in reconstructive medicine and tissue engineering. The company has perfected a technique in which collagen, a main building block of living organisms, can be purified and transformed so as to create a variety of products that are structurally stable and safe for medical applications. ColBar LifeScience Ltd., is a subsidiary of Ortho-McNeil-Janssen Pharmaceuticals, Inc.

* Initial treatment is defined as a single treatment with the option of touch-up within two to three weeks to achieve optimal correction.