Velosorb™ Fast Braided Absorbable Suture

Strength when you need it most. Fast absorption. No suture removal.

There when you need it; gone when you don’t.
Covidien introduces Velosorb™ Fast braided absorbable suture for use in soft tissue approximation of the skin and mucosa, when only 7-10 days of wound support is required.¹

**Patient comfort and surgeon’s needs in mind.**

Velosorb™ Fast sutures are composed of absorbable synthetic polyester comprised of glycolide and lactide (derived from glycolic and lactic acids).

**Velosorb™ Fast suture provides:**

- Designed with patient comfort in mind - no need for suture removal
- Pliable handling and easy knot tying during closing
- Strong wound approximation during the critical wound healing period
- Fast absorption profile³
- 14-day tensile strength loss; the ideal suture for dermal and mucosa closure
- Minimal tissue drag
- A variety of needles to meet surgeons’ needs
**Velosorb™ Fast suture stays strong, then disappears.**

Velosorb™ Fast suture is stronger than Vicryl Rapide™ for the first 7 to 10 days. Velosorb™ Fast suture has no tensile strength after 14 days.³

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**Velosorb™ Fast Suture Straight Pull ⁵,６**

<table>
<thead>
<tr>
<th>In-Vitro Time, days</th>
<th>0</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>% USP Collagen Specification</td>
<td>400%</td>
<td>350%</td>
<td>300%</td>
<td>250%</td>
<td>200%</td>
<td>150%</td>
<td>100%</td>
<td>50%</td>
<td>0%</td>
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**Velosorb™ Fast Suture Knot Pull ⁵,６**

<table>
<thead>
<tr>
<th>In-Vitro Time, days</th>
<th>0</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
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<tbody>
<tr>
<td>% USP Collagen Specification</td>
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<td>180%</td>
<td>160%</td>
<td>140%</td>
<td>120%</td>
<td>100%</td>
<td>80%</td>
<td>60%</td>
<td>40%</td>
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Results for the Straight Pull and Knot Pull test are statistically significant (p< 0.05)

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In a blinded, side-by-side comparative evaluation, 13 surgeons tested Velosorb™ Fast suture in five key areas and found it comparable in all performance categories to the Vicryl Rapide™ fast absorbable suture.²

- Velosorb™ Fast braided absorbable suture and Vicryl Rapide™ fast absorbable suture were compared in the evaluation.²
- Size 0, 2/0, 3/0 and 4/0 sutures were tested.

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<table>
<thead>
<tr>
<th>Suture Handling Performance</th>
<th>Velosorb™ Fast suture</th>
<th>Vicryl Rapide™*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suture Drag</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>First Throw Hold</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Knot Reposition</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Square Knot Security</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Surgeon Knot Security</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Overall Performance</td>
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</tbody>
</table>
Frequently Asked Questions

What is Velosorb™ Fast suture made of?
Velosorb™ Fast braided sutures are composed of an absorbable synthetic polyester comprised of glycolide and lactide (derived from glycolic and lactic acids).

What is the coating made of?
Velosorb™ Fast sutures are prepared by coating the suture with a mixture of a glycolide and lactide copolymer and calcium stearate.

What is Velosorb™ Fast suture indicated for?
Velosorb™ Fast sutures are indicated for use in soft tissue approximation of the skin and mucosa, where only 7-10 days of wound support is required, but not for use in ligation, Ophthalmic, cardiovascular or neurological procedures.

How is Velosorb™ Fast suture absorbed?
Progressive loss of tensile strength and eventual absorption of Velosorb™ Fast sutures occurs by means of hydrolysis, where the glycolide/lactide copolymer is broken down to glycolic and lactic acids which are subsequently absorbed and metabolized by the body.

How long does it take for Velosorb™ Fast suture to degrade?
Absorption begins as a loss of tensile strength without appreciable loss of mass. Studies indicate tensile strength averages for Velosorb™ sutures are no less than 45% of its original tensile strength 5 days post implantation. All of the original tensile strength is essentially gone by 14 days. Absorption of Velosorb™ sutures is essentially complete between the 40th and 50th day.

What are the contraindications for Velosorb™ Fast suture?
Velosorb™ Fast sutures, being absorbable, should not be used where extended approximation of tissue beyond 7 days is required.

How is Velosorb™ Fast suture supplied?
• Velosorb™ Fast sutures are available in USP sizes 1 (4 Metric) through 6-0 (0.7 Metric).
• Available dyed and undyed
• In pre-cut lengths or affixed to various needle types.
• Available in box quantities of one and three dozen.

How do you know you’re using a fast absorbing braided suture?
1- Not indicated for use in ligation, ophthalmic, cardiovascular or neurological procedures.
2- FAB-006 Product Performance Testing Lab #2 1/19/12 Elancourt, FR. Data Consolidated by Covidien R&D.
3- IFU indicates tensile strength averages for Velosorb™ Fast sutures are approximately 50% of its original tensile strength 5 days post implantation. All of the original tensile strength is gone by 14 days. Absorption of Velosorb™ Fast sutures is essentially complete between the 40th and 50th day.
4- FAB-004 Mass Loss Meta Biomed vs Sam Yang testing - 4/30/2012.
5- FAB-005 Sam Yang Data Sterilized In-Vitro Report - 4/20/2012.
6- FAB-002 Rapide Data Report.