Experimental study to compare bone marrow biopsy systems

Overall study evaluation

<table>
<thead>
<tr>
<th>SAFE CUT® and BONE MARROW</th>
<th>Other bone marrow biopsy systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsatisfactory</td>
<td></td>
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<tr>
<td>Satisfactory</td>
<td>Other bone marrow biopsy systems</td>
</tr>
<tr>
<td>Excellent</td>
<td>Other bone marrow biopsy systems</td>
</tr>
<tr>
<td>Very good</td>
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</tbody>
</table>

The Freiburg University Clinic tested eight biopsy systems from the European market. The criteria were: pressure needed, handling, cylinder removal, number of attempts, histopathological quality.

Our products regularly deliver compelling results in independent studies. In an independent study conducted at the Freiburg University Clinic, out of eight instruments, the SOMATEX® Bone Marrow Biopsy Systems SAFE CUT® and BONE MARROW were the only systems that achieved the overall mark A.

**Results SAFE CUT® and BONE MARROW**

- **Ergonomics:** Comfort and pressure transmission: very good
- **Needle stability:** very stable
- **Cylinder removal:** very easy
- **No. of biopsy attempts:** one attempt
- **Proportion of squeeze artefacts:** very low
- **Histopathological quality:** very good


**SOMATEX® – an excellent choice**

We at SOMATEX® design high quality medical products to facilitate diagnoses and therapies. For decades, we are closely collaborating with doctors and specialists in the medical fields in order to transfer their requirements into innovative product solutions. In addition to bone marrow biopsy systems, our portfolio consists of breast tumor clip and wire markings as well as solutions for pulmonary interventions, fetal therapies, assisted reproduction and radiation protection.
SOMATEX® bone marrow biopsy systems

Easy handling and premium quality

Puncture and histological extraction of bone marrow tissue from the iliac crest

SAFE CUT®
Patented Lock-Wire technology

We have designed the Lock-Wire technology to ensure easy and gentle biopsy retrieval. Following the puncture, the inserted Lock-Wire is inserted into the cannula. Two 360° rotations completely separate the sample from the medullary cavity avoiding patients having to experience the cannula being moved back and forth to separate the sample. The sample is virtually free of squeeze artifacts. These remarkable properties are confirmed in an independent study.*

BONE MARROW
Biopsy securing ridge ensures additional security

The inside of BONE MARROW’s cannula is equipped with a securing ridge, which fixes the marrow sample in the cannula shaft. Just like the tapered tip, this also provides additional security when retrieving the sample. Both handling as well as quality of the histological sample are rated ‘very good’ in an independent study conducted at the Freiburg University Clinic.*

ASPI CUT®
Sharp ground-point for atraumatic penetration

We have constructed the ASPI CUT® cannula to ensure simple handling. The millimeter graduation scale allows to regulate the penetration depth prior to puncture. In addition, the Luer-Lock connector enables secure syringe attachment. If necessary, the ASPI CUT® cannula wing handle can be removed. Apart from the standard cannula, we also provide cannula with additional lateral openings for even faster and more consistent aspirations.

Cytological puncture of sternum or posterior iliac crest

SAFE CUT®
Biopsy securing ridge supports fixation of the sample inside the cannula

Specimen securing ridge supports fixation of the sample inside the cannula.

SAFE CUT®
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<tr>
<td>X</td>
<td>Easy handling and premium quality</td>
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Overall mark A

The Freiburg University Clinic tested eight biopsy systems from the European market. The criteria were: pressure needed, handling, cylinder removal, number of attempts, histopathological quality.

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**BONE MARROW**
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The inside of BONE MARROW’s cannula is equipped with a securing ridge, which fixes the sample inside the cannula shaft. Just like the tapered tip, this also provides additional security when removing the sample. Both handling as well as quality of the histological sample are rated ‘very good’ in an independent study conducted at the Freiburg University Clinic*.

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We have constructed the ASPI CUT® cannula to ensure simple handling. The millimeter graduation scale allows to regulate the penetration depth prior to puncture. In addition, the Luer Lock connector enables secure syringe attachment. If necessary, the ASPI CUT® cannula wing handle can be removed. Apart from the standard cannula, we also provide cannula with additional lateral openings for even faster and more consistent aspirations.

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**Benefits at a glance**

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<thead>
<tr>
<th><strong>SAFE CUT®</strong></th>
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<tbody>
<tr>
<td>Product code</td>
<td>Gauge</td>
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<td>SAFE CUT® 181130</td>
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<td>BONE MARROW 180960</td>
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<td>ASPI CUT® 180105</td>
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<tr>
<td>ASPI CUT® 180106</td>
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**SAFE CUT® premium quality**

**BONE MARROW**

- Patented Lock-Wire technology
- Ergonomically shaped handle
- Premium stainless steel cannula
- Diamond-cut cannula tip
- Tapered cannula tip
- Trocar-point mandrin
- Ejector with measuring function
- Insertion aid
- Additional caps
- Luer-lock connector

**SAFE CUT®**

- Biopsy securing ridge
- Ergonomically shaped handle
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**SOMATEX® bone marrow biopsy systems**

Easy handling and premium quality

**SAFE CUT®**

- Secures the bone marrow sample by using Lock-Wire technology

**BONE MARROW**

- Biopsy securing ridge supports fixation of the sample inside the cannula
- Specimen securing ridge ensures additional security

**ASPI CUT®**

- Sharp ground tip for atraumatic penetration
- Removable wing handle
- Version with additional lateral openings

**Cytological puncture of sternum or posterior iliac crest**

- Millimeter-graduated scale to regulate penetration depth
- Adjustable depth regulation

**Puncture and histological extraction of bone marrow tissue from the iliac crest**

- Ergonomically shaped handles to apply optimal pressure
- Extremely sharp diamond-cut tip, ergonomically shaped handles as well as the premium material and processing quality of our products.

**SOMATEX®** bone marrow biopsy systems facilitate the biopsy procedure for the doctor and minimize patient discomfort. This is ensured by the extremely sharp, diamond-cut tip, ergonomically shaped handles as well as the premium material and processing quality of our products.
SOMATEX® bone marrow biopsy systems
Easy handling and premium quality

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SAFE CUT®
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Premium stainless steel cannula
Diamond cut cannula tip
Tapered cannula tip
Trocar point mandrin
Ejector with measuring function
Insertion aid
Additional cap
Luer-Lock connector

BONE MARROW
Bone marrow cylinder
Lock-Wire
Securing ridge

Product code Gauge Ø Length Color code
SAFE CUT® 181130 11 3.0 mm 100 mm white
SAFE CUT® 181140 8 4.0 mm 100 mm green
SAFE CUT® 181145 8 4.0 mm 150 mm green
SAFE CUT® 181011 14 2.1 mm 25 mm Additional lateral openings
SAFE CUT® 181015 14 2.1 mm 55 mm Additional lateral openings

ASPI CUT®
Millimeter-graduated scale to regulate penetration depth

Product code Gauge Ø Length
ASPI CUT® 181011 18 1.2 mm 40 mm
ASPI CUT® 181013 15 1.8 mm 40 mm
ASPI CUT® 181015 14 2.1 mm 25 mm Additional lateral openings
ASPI CUT® 181016 14 2.1 mm 55 mm Additional lateral openings

* Independent study by the Freiburg University Clinic.
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Bone marrow biopsy systems

Easy handling and premium quality

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Fax +49 (0) 30 3198225 99
info@somatex.com · www.somatex.com

SAFE CUT® and BONE MARROW

Other bone marrow biopsy systems