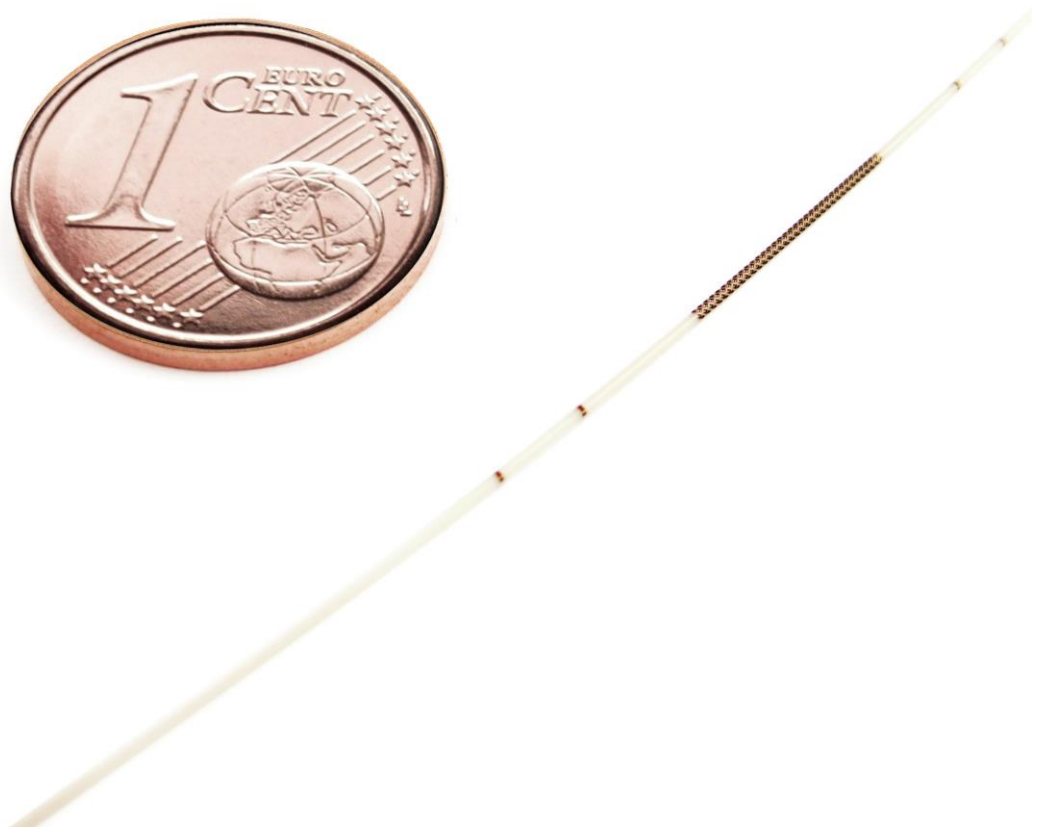


INSTRUCTIONS FOR USE



LINEAR OFM PROBE FOR SKIN AND ADIPOSE TISSUE FOR LABORATORY USE



Instructions for product type: a/d OFM-P-XX

READ Instructions for use before using the product! **ALWAYS** follow the warnings, cautions, and notes throughout this document. If you have questions regarding the safe or correct use of the product, please contact **your distributor**.



This document is available via download link. If required, a paper version can be requested from the distributor.

1 Intended Use

The Linear OFM Probe is a minimally invasive linear-type probe for single use and can be used in skin and subcutaneous adipose tissue during preclinical studies / laboratory use.

The investigator is responsible for the specific use of the products and compliance with all national regulations regarding the use of laboratory animals.

CAUTION



DO NOT use on humans! This Linear OFM Probe has **NOT** been approved for use on humans!

USE Linear OFM Probe on laboratory animals or ex-vivo setups **ONLY**.

DO NOT use Linear OFM Probe on household pets and other non-laboratory animals.

DO NOT pierce yourself with guide cannula during insertion. This can lead to the potential risk of serious injury and /or infection, which can result in death.

The Linear OFM Probe provides easy access to the target tissue. The Linear OFM Probe allows extracting fluid samples of the target tissue to allow analysing its biochemical conditions by passing a physiologically compatible liquid ('perfusate') through the Linear OFM Probe at a very low flow rate (0.1 – 10µl/min) ('microperfusion').

Due to the open (membrane-free) exchange surface, the perfusate can absorb practically any substances in the surrounding environment.

2 Directions for Use

2.1 Inserting the Linear OFM Probe into the Skin or Adipose Tissue

Attention: Work as sterile as possible during the whole process!

1. Disinfect the skin where the Linear OFM Probe shall be inserted.
2. Mark the entry and exit points with a sterile pen at a distance of ~30mm (Figure 1).
3. Use a sterile cannula with a larger inside diameter than the outside diameter of the Linear OFM Probe (e.g., ID: 0.65mm).
4. Use a needle holder to grasp the prepared sterile cannula and push it through the tissue until it protrudes 1cm from the skin. Avoid piercing directly through entry and exit points (slightly off). When inserting the cannula in the dermis, the skin should be kept taut with the second hand (Figure 2). When inserting the cannula in the subcutaneous adipose tissue, it is recommended to form a slight skin fold with the second hand.
5. Take the Linear OFM Probe and thread it carefully, beginning at the tip, through the cannula (Figure 3). Never touch or compress the exchange area of the Linear OFM Probe (area between the markings)!

6. Carefully remove the cannula and dispose it immediately in a sharps container (Figure 4).
7. Position the Linear OFM Probe with its exchange area centered between the entry and exit points in the skin or adipose tissue. Pull in such a way that the insertion pathway and the Linear OFM Probe always form a straight line. With the second hand, hold tissue or skin tightened Figure 5).
8. Seal the entry and exit points of the Linear OFM Probe with topical tissue adhesive (Figure 6).

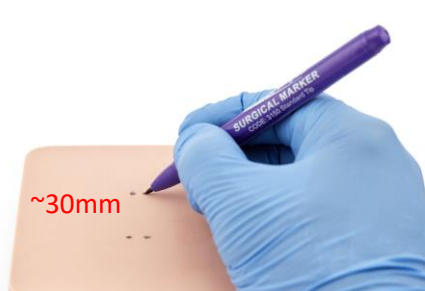


Figure 1: Mark the entry and exit points.

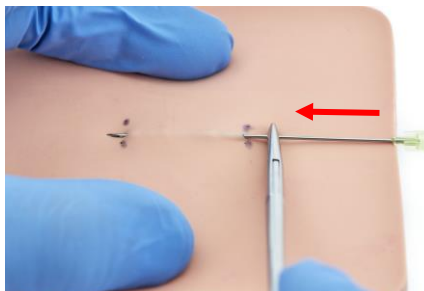


Figure 2: Insert cannula.

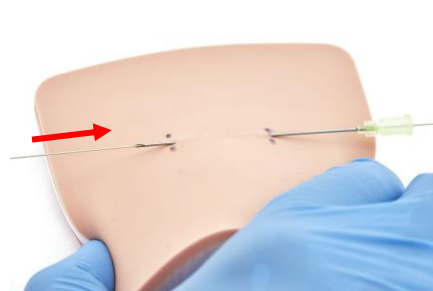


Figure 3: Insert Linear OFM Probe into cannula.

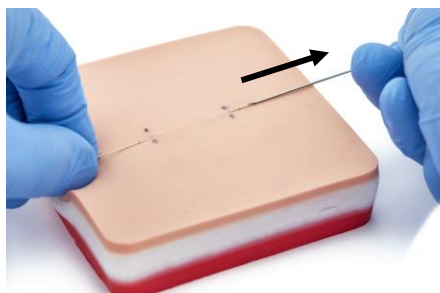


Figure 4: Remove cannula.

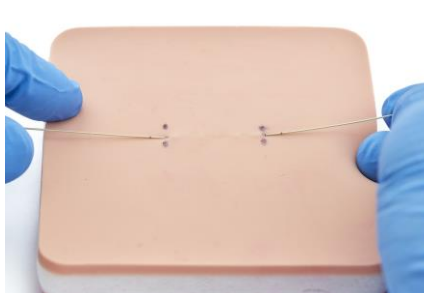


Figure 5: Place Linear OFM Probe centered.



Figure 6: Seal entry and exit points.

2.2 Connecting Accessories

For connecting accessories, refer to the corresponding instructions for use for OFM Microperfusion Pump MPP102 PC and preclinical OFM Tubing.

2.3 Removing the Linear OFM Probe

1. Remove the topical tissue adhesive.
2. Use sharp scissors to cut the Linear OFM probe as close as possible to one entry point (Figure 7). Before pulling the Linear OFM Probe out, make sure there are no sharp edges.
3. Carefully pull the Linear OFM Probe out lengthwise (Figure 8). In case of resistance, tighten the skin slightly.

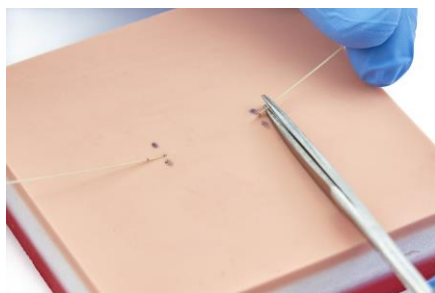


Figure 7: Cut the Linear OFM Probe.



Figure 8: Removing the Linear OFM Probe.



BIOHAZARD

Used and removed Linear OFM Probes are biohazardous and must be disposed accordingly!

3 Combination with Other Products

For optimal performance, operate the Linear OFM Probe with manufacturer-approved accessories like:

- OFM Microperfusion Pump MPP102 PC
- OFM Tubing (preclinical)
- OFM Perfusate Bag (preclinical)
- Topical Tissue Adhesive
- Cannula with minimal inner diameter of 0.65mm – BBRAUN Sterican 0.90 x 70mm (20G x 2 ¾) recommended
- Skin Marker



CAUTION

When using above-listed products with the Linear OFM Probe, ALWAYS observe the Instructions for Use of the respective product!



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