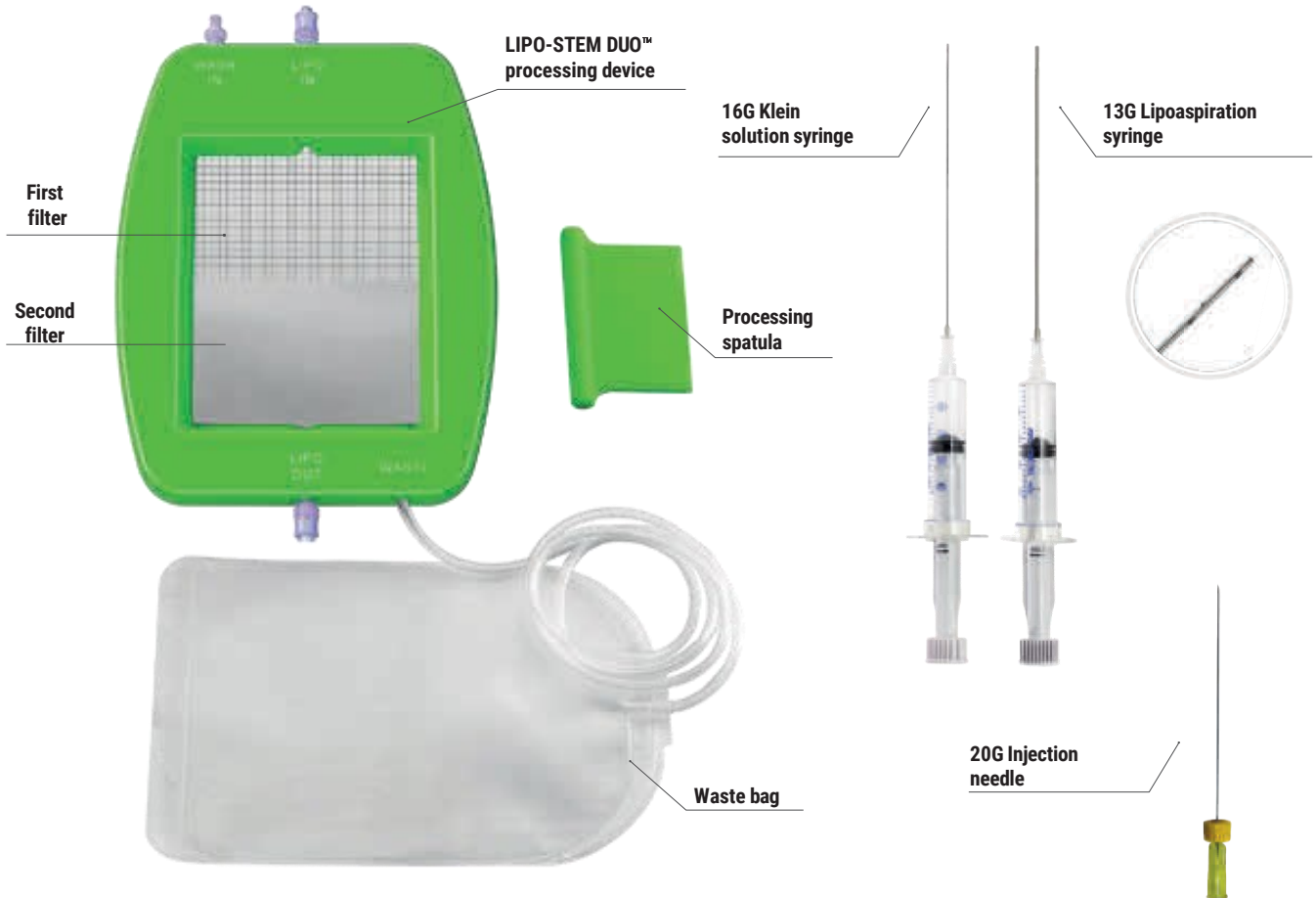


LIPO-STEM DUO™

MICROFRAGMENTATION, PURIFICATION AND PROCESSING KIT
FOR ADIPOSE TISSUE MSCs



LIPO-STEM DUO™ is a closed-circuit single-use kit for adipose tissue microfragmentation, processing and purification without any centrifuge and with minimal manipulation. The filtering system consistently microfragments the adipose tissue while maintaining the biological properties of the original tissue intact and maximizing the regenerative potential.

The entire processing phase of the liposuctioned tissue occurs inside the device thanks to continuous saline solution washing. This allows reducing the cellular stress eliminating any traumatic action that may damage the extracellular matrix and its essential trophic and anti-inflammatory function.

The collection and processing bag is equipped with two filters:

- the first filter microfragments the adipose tissue, while retaining the eventual fibrotic tissue
- the second filter with a denser mesh retains the microfragmented adipose tissue that is washed with saline solution eliminating all the oily and blood residues which might cause inflammation of the treated tissues.

The final microfragmented and purified product is an autologous adipose tissue rich in mesenchymal stem cells (MSCs) that keeps the biological properties of the original tissue intact and can easily be injected through very thin needles. The whole extracellular matrix acts as a natural structure for the cells increasing their vitality and contributing to the natural tissue regeneration process.

FEATURES



TIME EFFICIENT



MINIMAL
MANIPULATION



EASY TO USE

- Processes up to 400 ml of adipose tissue in 10 minutes.
- Centrifuge free: saving on time, personnel and tools.
- All-in-one system that processes, purifies and microfragments a high-quality adipose tissue rich in mesenchymal cells.
- Ready to use autologous adipose tissue transplant
- Preservation of the biological properties of the cells.
- Complete preservation of tissue architecture and stromal niche components.
- Continuous saline solution washing eliminates any traumatic action that may damage the extracellular matrix.
- Sampling and processing in a sterile closed-circuit environment eliminating the risk of contamination.
- No centrifugation is required, and no machinery loan and maintenance.
- Day hospital procedure.
- Simple and reproducible technique in a single surgical time while maintaining the highest standards for fat grafting.
- Compared to centrifugation, minimize the staff training and OR preparation and clean-up.
- Only 1 operator is required.

APPLICATIONS



SPINAL
SURGERY



PAIN THERAPY &
WOUND HEALING



ORTHOPAEDICS &
SPORT MEDICINE



VULNOTHERAPY



PLASTIC AND
RECONSTRUCTIVE
SURGERY



MAXILLOFACIAL
SURGERY



UROGYNAECOLOGICAL
SURGERY



COLONPROCTOLOGY

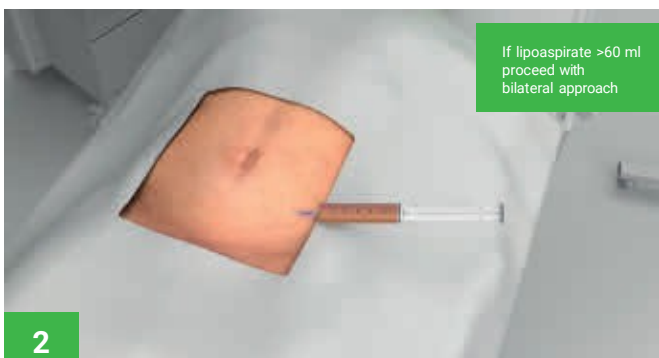
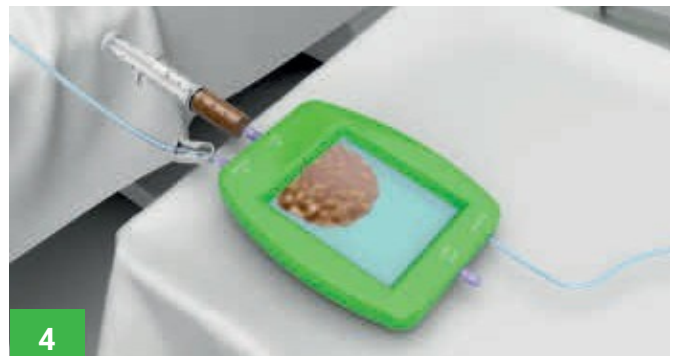
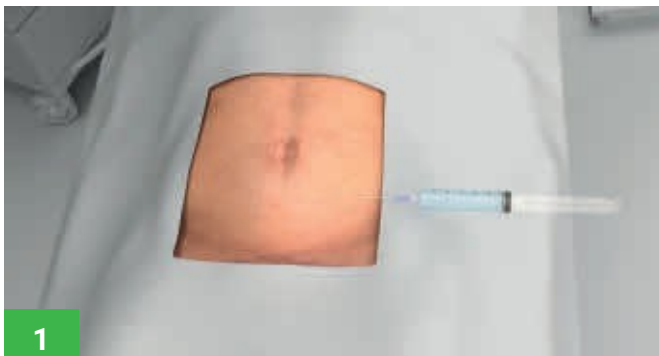
EU: HEALTHCARE PROFESSIONAL MUST VERIFY FOR EVERY TYPE OF APPLICATION THE MANOFUNCTIONALITY OF USE.

SURGICAL TECHNIQUE:

1. Infiltrate the Klein solution in the selected harvest site using the 16G Klein cannula.
2. Harvest the adipose tissue from the anaesthetized area using the 13G aspiration cannula.
3. Connect a 2 L saline bag to the device's "WASH IN" valve.
4. Insert the harvested adipose tissue into the device's "LIPO IN" valve.
5. Support the purification of the adipose tissue using the spatula.
6. Once the final product acquires a clear yellow colour, retrieve it from the dedicated "LIPO OUT" valve and use it as needed.

STANDARD KIT COMPOSITION:

- N. 1 x LIPO-STEM DUO™ processing bag and waste bag.
- N. 1 x Processing spatula
- N. 2 x 60 ml syringes for Klein's solution
- N. 2 x 60 ml Vaclok syringes for liposuction
- N. 1 x 16G cannula for injection of Klein's solution
- N. 1 x 13G cannula for liposuction
- N. 1 x 20G infusion needle
- N. 2 x 10 ml syringes for infusion
- N. 2 x 3 ml syringes for infusion
- N. 2 x Combi caps LLF/LLM
- N. 2 x Male Luer Cap, Non vented, Red
- N. 1 x Infusion line with air inlet
- N. 1 x Open side clamp





BPB MEDICA™ - Biopsybell S.r.l. Società Unipersonale
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