

Stemcis

Focus on your art

Fat transfer kits

All-in-one, sterile and single-use

Stemcis

Designed to bring you maximum comfort

Designed with you, designed for you.

With the help of surgeons, Stemcis has designed several kits¹ to enable you to perform various fat transfer procedures ranging from small volume (1 – 10mL) to large volume (150 – 2000mL) associated or not with implants.

Easy to use and state-of-the-art, they have been designed to allow you to perform your procedures in the best possible conditions while offering you maximum comfort.

They have been conceived to perform countless procedures and are easy to use. All-in-one, sterile and single-use, Stemcis kits² allow you to focus only on your art, on your gestures.

FDA-approved, CE-marking and ISO-certified

¹Class IIa Medical Device

²Using our kits does not present additional undesirable side effects nor complication risks other than those associated with the autologous fat grafting technique: ecchymosis, pain, infection, oedema, haematoma, fat embolism and side effects related to the death of adipose cells (fat necrosis, inflammation, oil cysts, microcalcifications).

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Quality policy

Quality is at the heart of Stemcis' commitments.

Stemcis is committed to offering in its all-in-one, sterile and single-use kits, instruments that meet the highest quality standards to ensure customer satisfaction. Thus, all Stemcis kits are composed of instruments specifically designed for the harvesting, treatment and injection of fat cells and comply with the regulations and standards in force: regulation (EU) 2017/745, ISO 13485, ISO 5832-1, ISO 594-2, ISO 16061, ISO 80369-7

- The cannulas contained in our kits are made of German steel to ensure their robustness during procedures, but also to reduce skin friction and damage.
- The shape and size of the cannula holes have been specially designed to facilitate the harvesting and injection of fat, prevent blockage and obstruction of the cannula and preserve the viability of the fat cells.

Advantages



All-in-one

All the instruments needed for your procedure, and only those, in one place.



Comfort in use

Instruments and kits specially designed to bring you more comfort in your practice.



Sterile and single-use

To ensure maximum safety for your patients.



Time optimisation

No more time wasted looking for the different instruments, everything is in the kit.



Regulatory compliance

FDA-approved, CE-marked and certified ISO 13485:2016.



Tissue preservation

Specially developed instruments and protocol to ensure optimal quality fat tissue and high-fat retention rate.

LARGE VOLUME KIT

01. Macrofill Vacuum

Macrofill Vacuum

Volume: 150 – 2000 mL



Our Macrofill Vacuum kit is used by surgeons for surgical procedures that involve large amounts of fat.

Specially designed to provide maximum comfort during use, the Macrofill Vacuum kit ensures the four steps of infiltration, harvesting, washing and soft centrifugation, plus the reinjection of adipose tissue, are easier and quicker than ever before.

Our kits, coupled with our Stemcis protocol, allow us to obtain small lobules that improve the vascularisation of the adipose tissue. Rejected, they allow for a more successful graft and have an increased chance of lasting over time.

Features

- Patented jar used to collect up to 200 mL
- Harvesting cannula with ergonomic handle for more comfort during fat extraction and connected directly to the jar

Instruments

1 infiltration cannula

10 holes (Ø 1.0 mm)
(Ø 1.7 – 2.1 mm x L250 mm)

1 harvesting cannula

20 holes (Ø 2.5 mm)
(Ø 3.0 – 3.5 mm x L250 mm)

2 jars – 200 mL and 2 connectors

1 transfer cannula

(Ø 2.4 – 3.0 mm x L130 mm)

2 FLL–FLL connectors

2 injection cannulas – 14G

(Ø 1.7 – 2.1 mm x L130 mm)

(Ø 1.7 – 2.1 mm x L200 mm)

2 needles

16G, L40 mm / 22G, L50 mm

1 rotor nut

SMALL VOLUME KITS

01. Nanofill
02. Microfill
03. Myfill



Our Nanofill kit is designed for use by surgeons who require very small amounts of adipose tissue for their procedures.

Specially designed with the surgeon's maximum comfort in mind, Nanofill ensures the steps of infiltration, harvesting, washing and soft centrifugation, along with the reinjection of adipose tissue, are easier and quicker than ever before.

Our kits, coupled with our Stemcis protocol, allow us to obtain small lobules that improve the vascularisation of the adipose tissue. Reinjecting, they allow for a more successful graft and have an increased chance of lasting over time.

Features

- Thin injection cannulas for delicate areas
- Syringes with removable plunger to be directly centrifuged and reduce the manipulations
- Closed system during the entire procedure

Instruments

1 infiltration cannula

(Ø 2.1 mm x L150 mm)

1 harvesting cannula

4 holes (Ø 1.1 mm)

(Ø 1.7 – 2.1 mm x L150 mm)

2 Luer-Lock syringes – 10 mL

with removable plunger

3 support caps for Luer-Lock syringes (red)

3 caps for Luer-Lock syringes (transparent)

2 Luer-Lock syringes – 1 mL

1 FLL-FLL connector

2 injection cannulas – 22G

(Ø 0.5 – 0.7 mm x L50 mm)

(Ø 0.5 – 0.7 mm x L70 mm)

2 needles

16G, L40 mm / 22G, L50 mm

1 rotor nut



Our Microfill kit is designed for surgeons performing procedures involving small amounts of fat.

Like all of our kits, the Microfill kit is specially designed for the surgeon's maximum comfort. The steps of infiltration, harvesting, washing and soft centrifugation, followed by the reinjection of adipose tissue, have never been as easy or as quick to perform.

Our kits, coupled with our Stemcis protocol, allow us to obtain small lobules that improve the vascularisation of the adipose tissue. Reinjecting, they allow for a more successful graft and have an increased chance of lasting over time.

Features

- Patented tubes especially designed for an efficient washing of harvested tissue and to avoid air contact
- Thin injection cannulas for delicate areas
- Closed system during the entire procedure

Instruments

1 infiltration cannula

10 holes (Ø1.0 mm)
(Ø 2.1 mm x L150 mm)

1 harvesting cannula

8 holes (Ø 1.2mm)
(Ø 1.7 - 2.1 mm x L150 mm)

4 Luer-Lock syringes – 10 mL

1 transfer cannula

(Ø 2.4 - 3.0 mm x L130 mm)

2 centrifugation tubes – 50 mL

4 Luer-Lock syringes – 1 mL

2 FLL-FLL connectors

2 injection cannulas

17G (Ø 1.2 - 1.4 mm x L50 mm)
20G (Ø 0.7 - 0.9 mm x L100 mm)

1 needle

18G, L40 mm

1 rotor nut



Our Myfill kit is designed for surgeons performing procedures involving small amounts of fat.

Like all of our kits, the Myfill kit is specially designed for the surgeon's maximum comfort. The steps of infiltration, harvesting, washing and soft centrifugation, followed by the reinjection of adipose tissue, have never been as easy or as quick to perform.

Our kits, coupled with our Stemcis protocol, allow us to obtain small lobules that improve the vascularisation of the adipose tissue. Reinjecting, they allow for a more successful graft and have an increased chance of lasting over time.

Features

- Patented tube especially designed for an efficient washing of harvested tissue and to avoid air contact
- One balance tube to maintain the balance during centrifugation
- Closed system during the entire procedure

Instruments

1 infiltration cannula

10 holes (Ø1.0 mm)
(Ø 2.1 mm x L150 mm)

1 harvesting cannula

8 holes (Ø 1.2mm)
(Ø 1.7 - 2.1 mm x L150 mm)

6 Luer-Lock syringes – 10 mL with removable plunger

1 centrifugation tube – 50 mL

1 balance tube – 50 mL

2 FLL-FLL connector

1 transfer cannula

(Ø 3.0 mm x L130 mm)

1 needle

19G

1 rotor nut

ADDITIONAL PRODUCTS

01. Adip'spin and rotors

02. Adip'sup

Adip'spin



Adip'spin is a centrifuge engineered to be used in operating rooms.

Fully compatible with Stemcis products thanks to its three different rotors, it offers two different modes of use.

- **Stemcis pre-programmed mode**
Our protocol is already set-up in to facilitate your work. It allows a short and soft centrifugation of the adipose tissue to obtain better fat graft survival.
 - 2 washes of 1s at 1000 rpm
 - 1 wash of 1min at 2000 rpm
- **Free mode**
Customise the settings to suit your needs
 - Set speed from 100 to 3000 rotations per minute
 - Set duration from 1 to 99 minutes

Rotors



Rotor R2
Macrofill Vacuum
200 mL jars

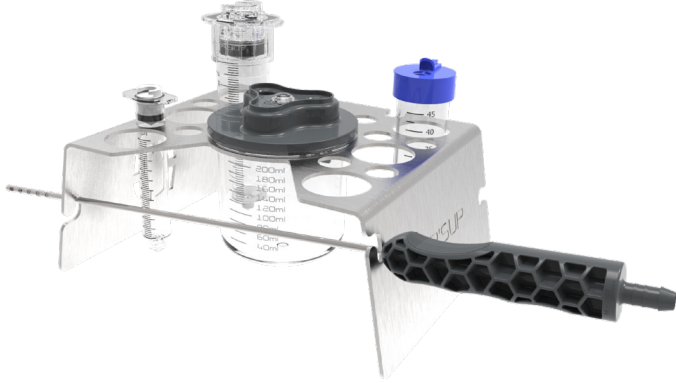


Rotor R6
Microfill and Myfill
50 mL tubes



Rotor R12
Nanofill
10 mL syringes

Adip'sup



Adip'sup is a multi-use and re-sterilisable support.

It is able to hold the instruments during the surgery to improve the comfort of the surgeon and his/her team, and it is compatible with all the instruments of the Stemcis kits.

Notes

References

Reference	Trade name	Description	Number of units by packaging
KTANANO	Nanofill	Complete kit for very small volumes	3
KTAMICRO	Microfill	Complete kit for small volumes	1
KTAMY	Myfill	Complete kit for small volumes	1
KTAVACUUM	Macrofill Vacuum	Complete kit for large volumes	1
ADIPSPINE	Adip'spin	Pre-programmed centrifuge	1
ADIPMVR2	Rotor R2	Rotor for Macrofill Vacuum kit	1
ADIPR6	Rotor R6	Rotor for Macrofill Medium, Microfill and Myfill kits	1
ADIPR12	Rotor R12	Rotor for Nanofill kit	1
ADIPSUP	Adip'sup	Multi-use and re-sterilisable support	1

PROTOCOL

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Protocol

The tissue treatment is one of the key of fat graft survival. Stemcis marketed and promoted instruments, technique and protocol ensure efficient tissue harvesting, while controlling the negative pressure and preserving adipose / Stromal Vascular Fraction (SVF) cells, leading to:

- Increased retention rates: 70 to 90%
- Decreased oil release, cyst formation, fat necrosis, inflammation.

STEP 1: Infiltration

The infiltration step consists of the injection of an infiltration solution (made of sodium chloride, epinephrine and local anaesthetic) at the donor site. This step is necessary to facilitate the harvesting and reduce the bleeding. Infiltration cannulas in the marketed and promoted kits allow a fast and homogeneous diffusion of the solution thanks to the helical distribution of the holes.



STEP 2: Harvesting

Use specific cannulas

The size of the harvested lobules affects the fat retention rates. Stemcis marketed and promoted harvesting cannulas ensure the perfect compromise between the harvesting of microlobules, the preservation of the adipose cells, and their viability¹.

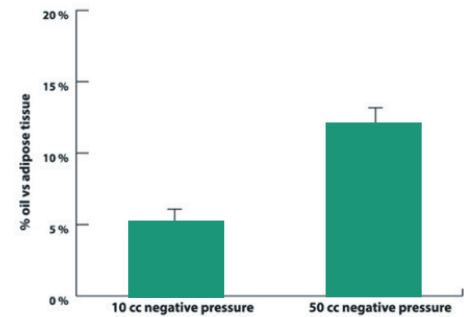
Stemcis harvesting cannula	Cannula design & tissue vascularisation						
<p>Macro 20 holes Ø 2,5 mm</p> <p>Micro 8 holes Ø 1,2 mm</p> <p>Nano 4 holes Ø 1,1 mm</p> <p>Ø 3,5 mm</p> <p>Ø 2,1 mm</p>	<table border="0"><tr><td>Classis cannula</td><td>Microcannula</td></tr><tr><td></td><td></td></tr><tr><td><ul style="list-style-type: none">• Tissue necrosis• Low vascularisation• Low survival</td><td><ul style="list-style-type: none">• Absence of necrosis• High vascularisation• High survival</td></tr></table>	Classis cannula	Microcannula			<ul style="list-style-type: none">• Tissue necrosis• Low vascularisation• Low survival	<ul style="list-style-type: none">• Absence of necrosis• High vascularisation• High survival
Classis cannula	Microcannula						
<ul style="list-style-type: none">• Tissue necrosis• Low vascularisation• Low survival	<ul style="list-style-type: none">• Absence of necrosis• High vascularisation• High survival						

1. Lipofilling: Critical points for successful fat grafting. Girard et. al. J Ästhet Chir 2014;7:93-97 – Studies sponsored by Stemcis.

Avoid a high negative pressure

High negative pressure damages the adipose cells' membrane. A low negative pressure (set at 500 mbar of the liposuction device, 10 mL in a 60 mL syringe, 2 mL in a 10 mL syringe) will ensure optimal adipose cells viability. For non-assisted liposuction, Stemcis markets and promotes a 60 mL syringe to ensure low pressure thanks to its lockable plunger in 10 mL increments.

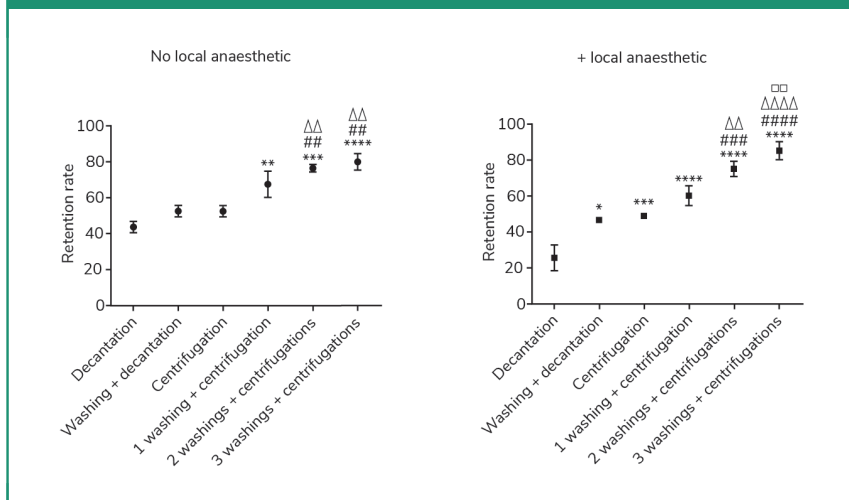
Correlation between oil & negative pressure



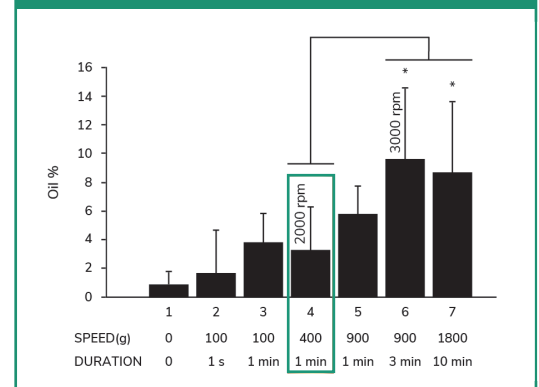
STEP 3: Washing and centrifugation

Once harvested, the adipose tissue needs to be purified as it contains cell debris and toxic molecules. To increase the retention, the tissue is washed and leftover solutions removed. Stemcis marketed and promoted kits have shown that centrifugation is the most efficient technique; however, the parameters must be set at a low speed and short duration to concentrate the tissue while preserving cell viability¹⁻².

Positive effect of washings and centrifugation with Stemcis settings



Correlation between centrifugation parameters and oil %



STEP 4: Injection

Stemcis markets injection cannulas with a small diameter which are less traumatic and allow an injection by small amount of adipose tissue, in a retrograde way, maximising the vascularisation of the transferred tissue and ensuring a high retention rate. The injection is fluid and easy thanks to the high quality of the fat prepared.



Macrofill medium
Macrofill vacuum
14G x 130 mm / 14G x 200 mm



Microfill
20G x 50 mm / 17G x 100 mm



Nanofill
22G x 50 mm / 22G x 70 mm

1. Effect of washes and centrifugation on the efficacy of lipofilling with or without local anesthetic - Girard et. al. *Plast Reconstr Surg Glob Open* 2015; 3 (8): e496 2. Effect of centrifugation and washing on adipose graft viability : A new method to improve graft efficiency - Anesthetic Plast Surg. 2013 Feb; 37 (1): 144-52 - Hoareau et. al. *J Plast Reconstr Aesthet Surg*. 2013 may; 66 (5): 712-9 - Studies sponsored by Stemcis.

TESTIMONIES

Testimonies

Testimonies

I was very enthusiastic about the Macrofill Vacuum kit.

The handling is very simple and self-explanatory. The harvesting cannula is great for fat grafting, the consistency of the fat was very stable. The two jars also make it easy to extract the tumescent solution. The closed system is very practical, and you don't have to modify or reconnect during the procedure. The centrifuge is also easy to use. The harvested fat fits perfectly through the injection cannula without clogging! So, all in all, top!

Dr. KAGER
Plastic Surgeon

Myfill is a small and compact kit, and it makes the treatment very easy and very smooth. So, for every surgical act, there are the right instruments in the kit.

Dr. DEPAEPE
Orthopedic surgeon

I had a complex for several years, but I finally took the plunge, and I don't regret it at all. The result is above my expectations while remaining natural. I feel beautiful and more confident.

Sarah
Patient - Composite breast augmentation

At 53 years old, I wanted to fade the first signs of ageing that were starting to settle on my face, especially around the eyes. I absolutely wanted a natural result and above all, I wanted to be reassured about the possible risks of allergies etc., so my doctor told me about the lipofilling technique, and I must say that it is perfect. In addition, he showed me the kit before the procedure and the fact that he uses sterile and single-use kits is very reassuring.

Denis
Patient - Facial lipofilling

Stemcis

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