N-BIOTEK
Leading Biotechnology

Adipose derived Stem Cell Isolation Kit

STEMPIA

FDA CE ISO 9001 ISO 14001

What is SVF?

Stromal Vascular Fraction (SVF) is a component of the lipoaspirate obtained from liposuction of excess adipose tissue. Lipoaspirate, the waste product of liposuction (cosmetic surgery), contains a large population of stem cells called **adipose derived stem cells (ASCs)**, which share a number of similarities with bone marrow stem cells, including the capacity for multilineage differentiation.

Autologous SVFs containing ASCs are currently being used in clinical settings for various orthopedic applications for human patients without any serious side effects.

SVF Treatment Process

STEMPIA *Easy and Effective SVF Isolation system!*

STEMPIA is the trade mark of NBIOTEK's SVF isolation kit. This kit consist of two specially designed tubes for isolation and concentration of SVF derived from adipose tissue. STEMPIA offer easier and shorter process for SVF isolation using less consumables and tools as compared with typical manual SVF isolation process using pipets and conical tubes. Save both cost and time for SVF isolation with STEMPIA.

SVF Isolation Procedure with STEMPIA

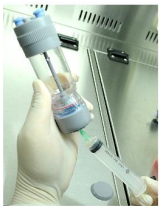
① 40ml Fat mixed with 40ml Enzyme

② One time Isolation with centrifuge

③ Isolated Tissue in 1st tube

④ Take SVF from 1st kit

⑤ Washing two time with normal saline and 2nd kit



⑥ Extract final SVF

Total Process time with STEMPIA™ is less than 1hour

Required Consumable

Tools, Consumables for STEMPIA

VS

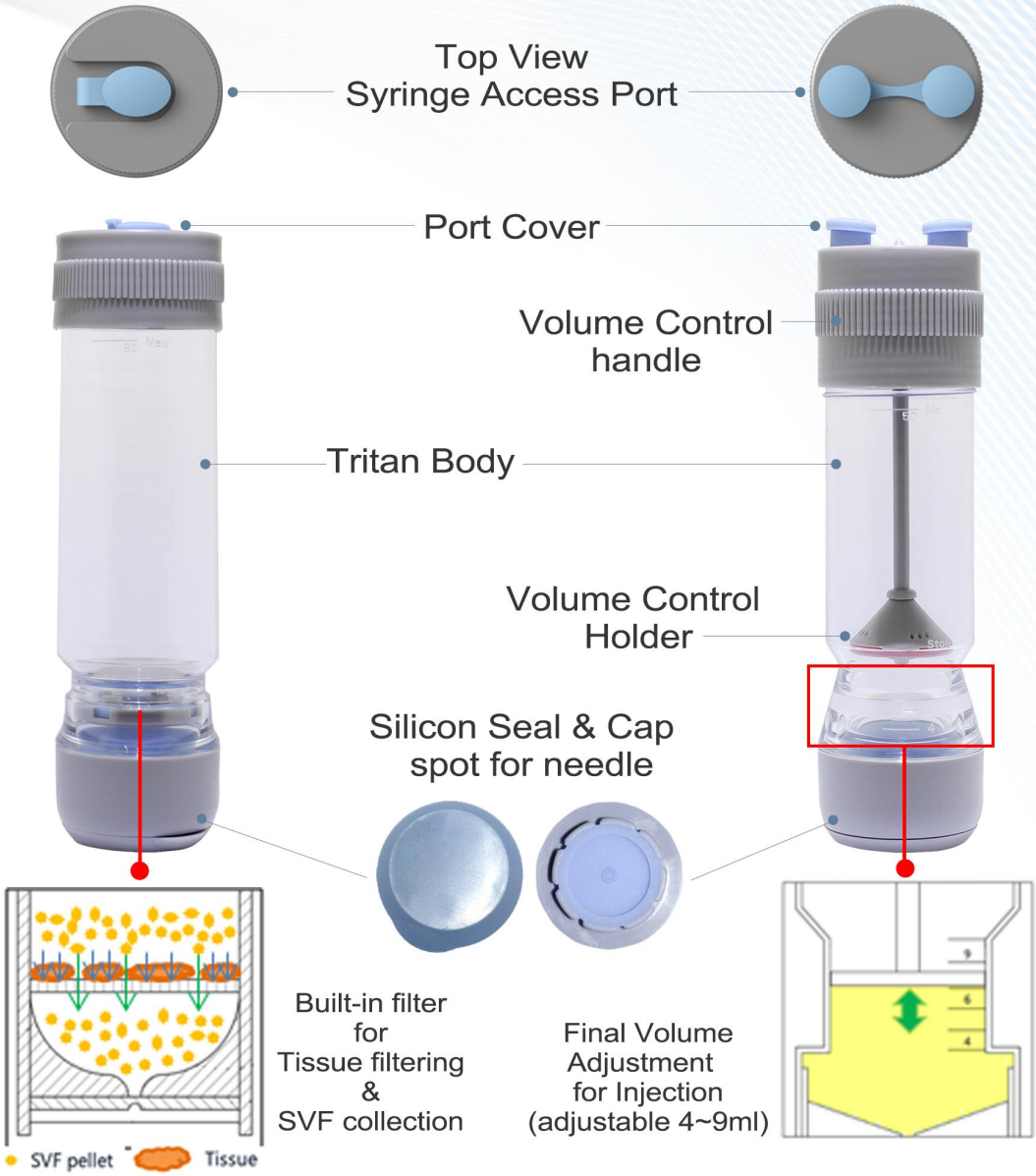
Tools, Consumables for MANUAL

STEMPIA

Components

1st tube for Isolation

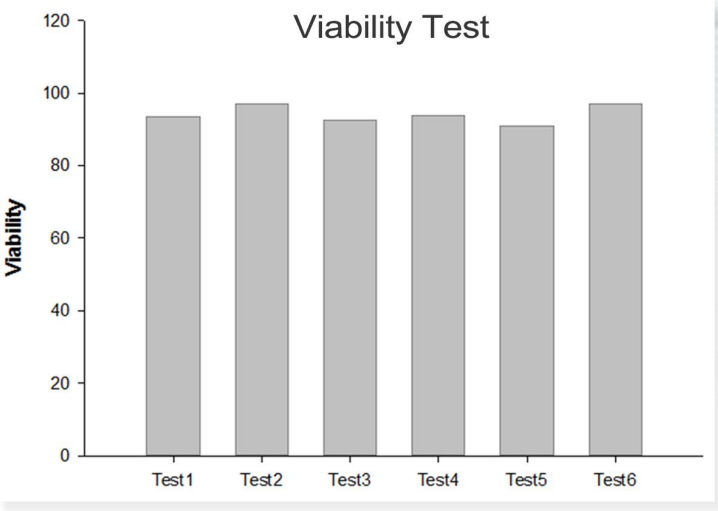
2nd tube for washing

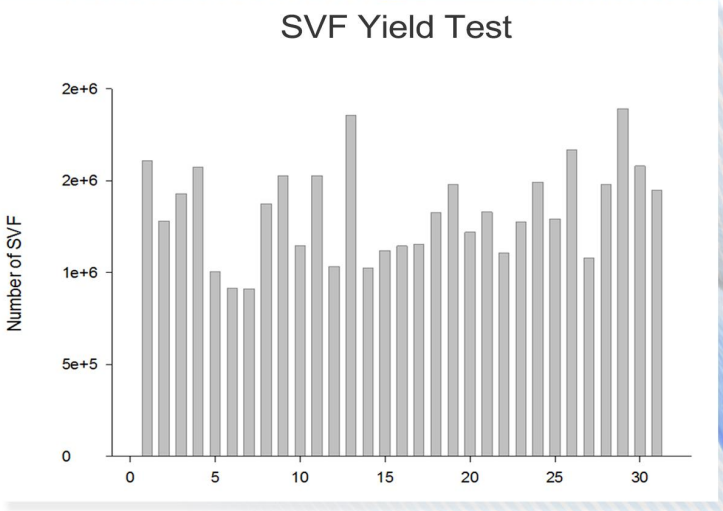


Specification

	1st Tube	2nd Tube
Dimension	140*38mm	
Capacity	Max.80mL (Max Adipose tissue 40mL)	Max. 50mL
Tube Material	Tritan, Polypropylene, Medical Silicon *Tritan : environmental material where endocrine-disrupting bisphenol-A(BPA) not found	
Packing	Gamma Sterilized and sealed packing	
Certificate	FDA(Class I), CE(Class I) , ISO9001, ISO14001	

Performance Data





► Avg. 94.1% Viability from 6 Test Groups

► Avg. SVF Volume from 31 test groups
1.33 x 10^6 cells in 1ml Adipose Tissue

"High Viability & Yield rate despite simpler & shorter process"

Equipment for SVF process

Multi Work Station
<Centrifuge + Shaker in Clean Bench>

LED Cell Activator

Centrifuge

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