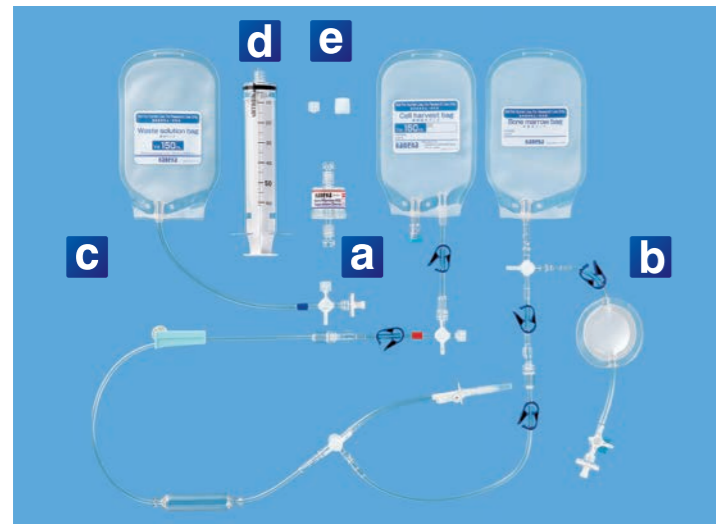


Bone Marrow MSC Separation Device

KANEKA

Advanced Set

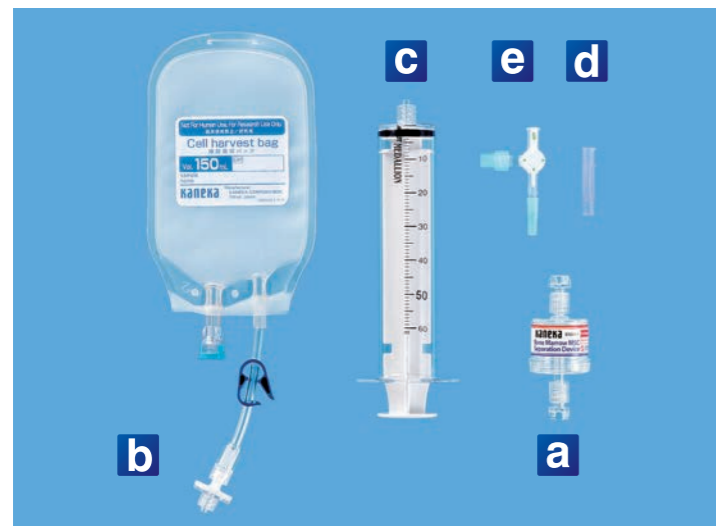
Catalog No. : R-BS-01



- a** Column $n=1$
- b** Circuit set A $n=1$
Bone marrow bag, cell harvest bag, and circuit bag, etc.
- c** Circuit set B $n=1$
Waste solution bag and circuit, etc.
- d** Luer lock syringe $n=1$
- e** Cap $n=1$

Basic Set

Catalog No. : R-BK-01



- a** Column $n=1$
- b** Cell harvest bag $n=1$
- c** Luer lock syringe $n=1$
- d** Luer lock joint $n=1$
- e** Three-way cock $n=1$

- Reference**
1. Tissue Eng Part C Methods. 2010 Feb;16(1):81-91.
 2. Cytotherapy. 2013 Feb;15(2):146-53.

For Research Purposes Only

The Bone Marrow MSC Separation Device may not be used for therapeutic purposes.

Not for resale or redistribution.

This device has no FDA-PMA and not FDA approved.

EC-representative

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TEL: (+1)-800-526-3522

Manufacturer

KANEKA CORPORATION
2-3-18, Nakanoshima, Kita-ku, Osaka
530-8288, Japan
TEL: (+81)-(0)6-6226-5138

Bone Marrow MSC Separation Device Website <https://kaneka-cellseparation.jp/msc/english/>

Ref No.E107-109a Date Mar 2016 HK/CO



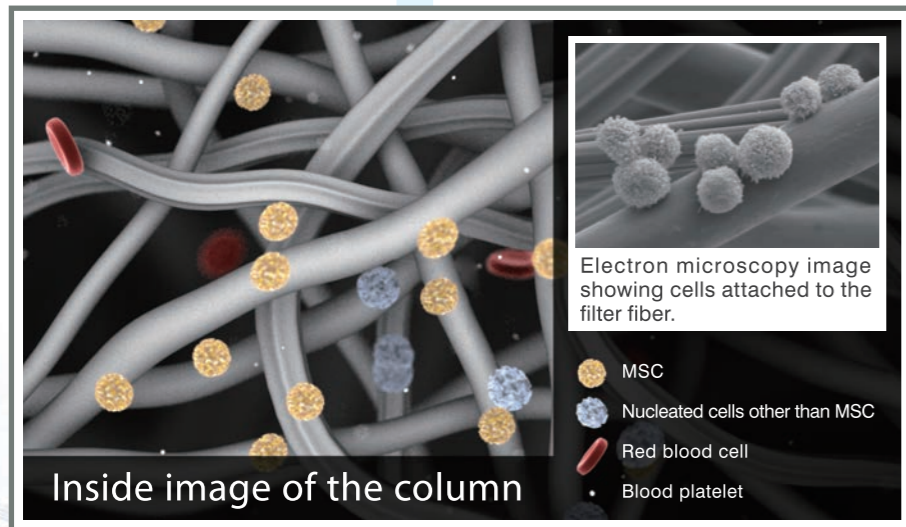
Provides unlimited potential for future regenerative medicine.

Bone Marrow MSC Separation Device

For research purposes only

The innovative Bone Marrow MSC Separation Device harvests mesenchymal stem cell (MSC) via a filter.

Processing in a closed system reduces contamination risks.*
*With the Advanced Set



Copyright(C)2009Sharaku

MSCs can be harvested in just 20 minutes.*

*Data obtained at KANEKA Corporation

Safe

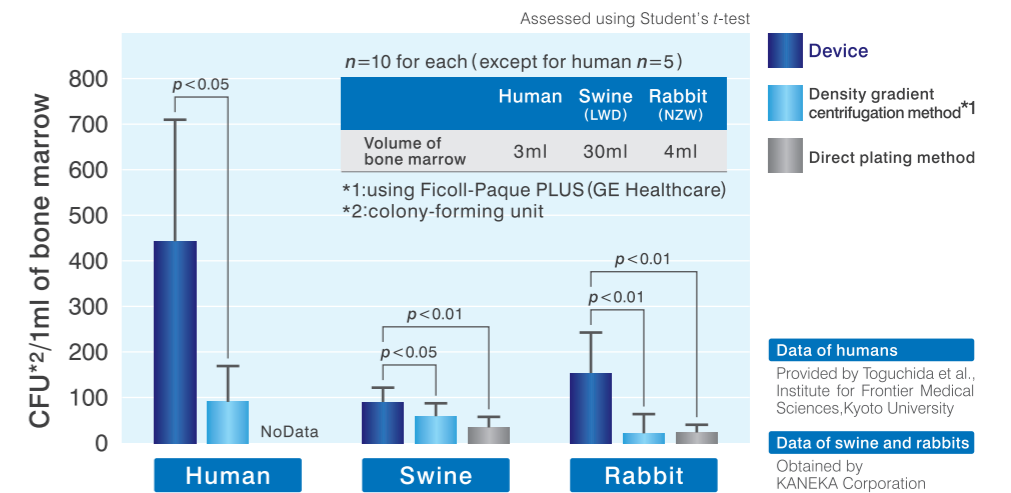
Efficient

Easy

MSCs can be efficiently harvested.

Number of MSCs harvested

The use of the Bone Marrow MSC Separation Device achieves a more efficient innovative way of harvesting of MSCs from bone marrow compared to conventional methods in humans, swine, and rabbits.



Key Point! The device brings about the reduction of time for cultivation and the volume of required bone marrow.

Number of MSCs harvested from diluted bone marrow

MSCs can also be harvested from diluted rat or mouse bone marrow.*1

CFU/1ml of diluted bone marrow (n=10)

	Rat	Mouse*2
CFU/1ml	9.5±4.6	15.8±16

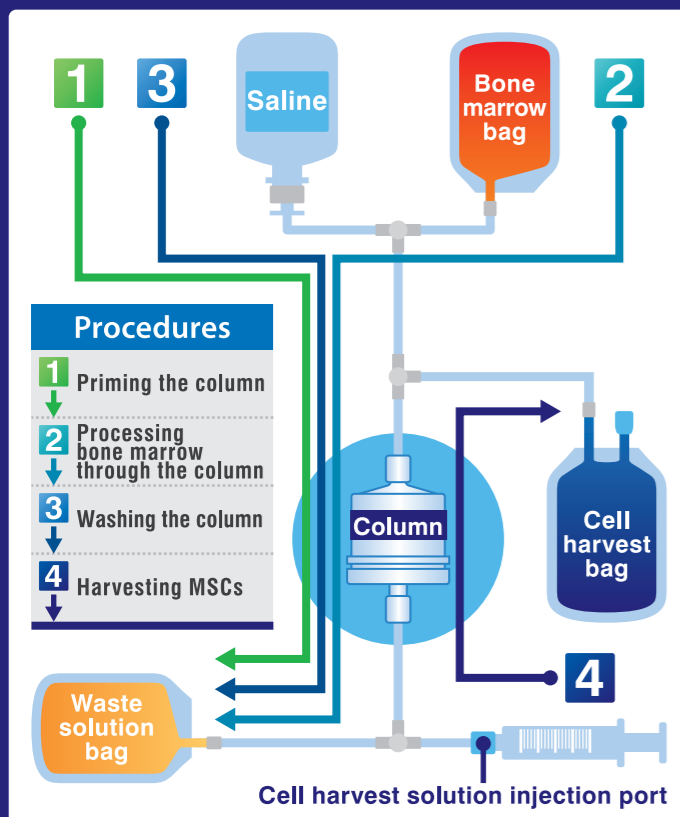
Data of rats and mice
Obtained by KANEKA Corporation

*1: Flushing bone marrow from the femur with saline.

*2: Each sample consists of pooled dilution fluid from seven animals.

How to use the Bone Marrow MSC Separation Device

Do not alter or misuse the device contrary to instructions.

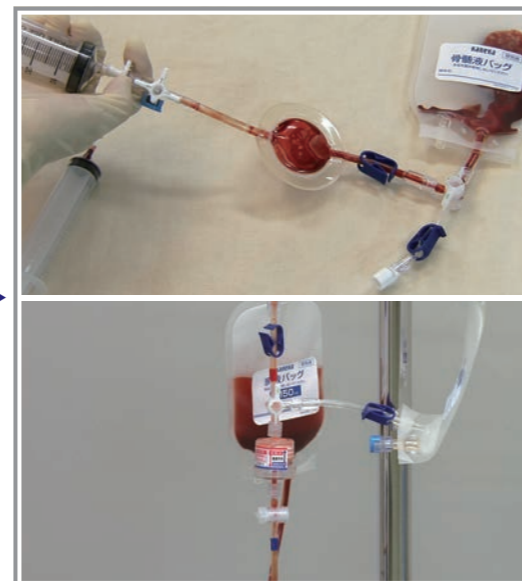


1 Priming the column



Pass saline through the column to remove air inside the column.

2 Processing bone marrow through the column



Process bone marrow through the column. MSCs and some nucleated cells will attach to the filter fibers.

3 Washing the column



Wash the column with saline to remove any bone marrow remaining inside the column.

4 Harvesting MSCs



Flush cell harvest solution (e.g., medium, saline) in the opposite direction to harvest cells trapped in the filter.