

EZSep™ Melanocyte Isolation Kit

Melanocytes are the cells that produce melanin and are located in the bottom layer of epidermis of skin, middle layer of the eye, the inner ear, meninges, bones and heart. Apart from being the major determinant of skin colour, melanin absorbs UV light and inhibits radical ion generation, protecting the skin from sun damage and aging. With the increasing risk of melanoma, skin depigmentation and several other diseases related to deficiency of melanin, intense research is focused on development of different treatment strategies to increase melanin production. One important approach in this research is the use of *in vitro* cultured melanocytes that are isolated from primary tissues and can be used for melanin production or wound/ scar healing. Various methods have been developed for isolation and culturing of melanocytes.

EZSep™ Melanocyte Isolation Kit is based on the classical method of enzymatic dissociation of skin grafts at the epidermal-dermal interface and isolation of cells from dissociated tissue.



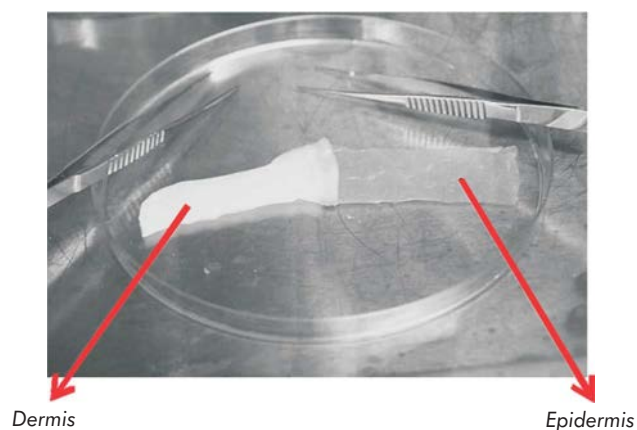
Advantages

- ◆ Time saving: Melanocytes can be separated in 3 simple steps involving enzymatic dissociation, neutralization and suspension
- ◆ User friendly: Ready to mix and pre-weighed reagents offer ease of reagent preparation
- ◆ High yield of melanocytes

Kit Contents

- ▶ Dissociation mix
- ▶ Melanocyte suspension medium
- ▶ Reconstitution buffer
- ▶ Neutralizing reagent
- ▶ Syringe-driven filter
- ▶ Petri-plates
- ▶ Conical bottom centrifuge tube

Separation of dermis and epidermis

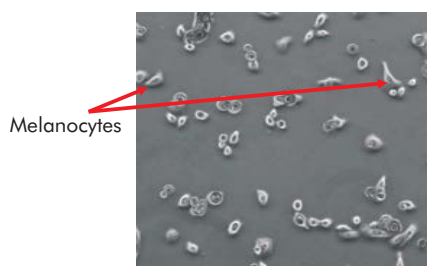


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Neutralization of excess enzyme with neutralization solution

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Separation of melanocytes and preparation of suspension



Mixed population of melanocytes
and keratinocytes (100X)

Research applications

- ♦ *In vitro* research on drug development for skin pigmentation related disorders, wound healing and burns treatment
- ♦ Generation of Induced Pluripotent Stem Cells (iPSC)

Ordering information

Product Name	Code	Packing
EZSep™ Melanocyte Isolation Kit	CCK001-1PR	1 preparation
	CCK001-5X1PR	5 preparations

*1 preparation is sufficient for isolation of melanocytes from skin graft with dimensions of 2cm x 4cm



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