

Product data sheet

MRC5/GFP stable cell line

Catalog Number: CL-2342

Storage: Liquid nitrogen

Components: 1 vial contains $\sim 2 \times 10^6$ cells in Cell freezing medium

Product description

MRC5/GFP cells are derived from the human fibroblast cell line MRC5 by stably integration of a constitutive GFP stably expression construct. MRC5 cells are widely used in the studies of cell biology, virus biology, cellular aging and toxicology. MRC5/GFP cells stably express GFP, can be used for *in vitro* assays and *in vivo* imaging.

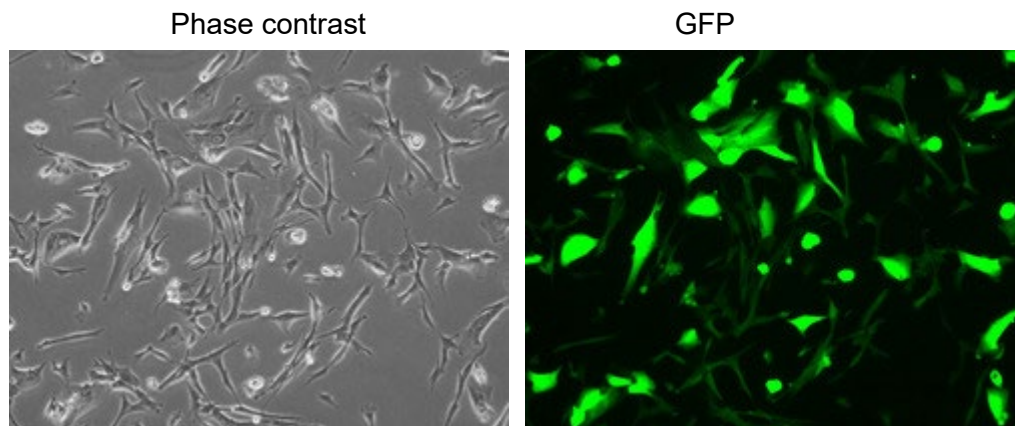


Figure 1. GFP expression in MRC5/GFP stable cell line

Cell line description

Organism: *Homo sapiens*, human

Tissue: Lung

Cell Type: fibroblast

Morphology: fibroblast

Culture Properties: adherent

Biosafety Level: 2

Medium

1. Complete culture medium: DMEM, 10% fetal bovine serum (FBS)
1 µg/mL of puromycin may be added to the culture medium. Puromycin should not be added until a culture has been well established from the thawed cells.
2. Freeze medium: Fetal bovine serum (FBS), 6% DMSO

Culture procedure

Thawing of frozen cells

1. Thaw the frozen cryovial by gentle agitation in a 37 °C water bath in 1-2 minutes.
2. Remove the cryovial from the water bath as soon as the contents are thawed and decontaminate by wiping with 70% ethanol.
3. Transfer the thawed cell suspension to a centrifuge tube containing 10 ml of Complete culture medium, centrifuge at 500 g for 5 minutes.
4. Remove the medium by aspiration, resuspend the cells with 10 ml of the Complete culture medium by gently pipetting up and down.
5. Transfer the cells to a 10cm cell culture dish.
6. Place the cells in a 37°C incubator with 5% CO₂.

Sub-culturing

Subcultivation Ratio: A subcultivation ratio of 1:2 to 1:5 is recommended

Medium Renewal: 1 to 2 times per week.