

nippi iMatrix-511 Cell Culture Substrate use with Stemgent® StemRNA™NM Reprogramming Kit and Stemgent NutriStem™ XF/FF Culture Medium

Overview

This protocol describes the use of iMatrix-511, a xeno-free laminin-511 E8 fragment product that can be used as an embryonic stem (ES) cell or induced pluripotent stem (iPS) cell maintenance substrate in combination with Stemgent’s NutriStem XF/FF medium, or for reprogramming primary cells such as human fibroblasts, blood-derived endothelial progenitor cells (EPCs) and urine-derived epithelial cells (UDCs) into iPS cells using Stemgent’s StemRNA-NM Reprogramming Kit (#00-0076).

Abbreviations

PBS	Phosphate-buffered saline
-----	---------------------------

Products

Cat. No.	Description
NP892-011	iMatrix-511, 350 µg (2 vials x 175 µg)
NP892-012	iMatrix-511, 1050 µg (6 vials x 175 µg)
01-0005	NutriStem XF/FF Culture Medium for Human iPS and ES Cells
00-0076	Stemgent StemRNA-NM Reprogramming Kit

Storage

- Store iMatrix-511 at 4 °C.
- Protect from light.
- Expiration date is shown on the label.

Protocol

1. Dilute 0.5mg/mL iMatrix-511 stock solution to 2.4µg/mL in 1 mL of sterile PBS/6-well.
2. Coat with 1 mL per 6-well of 2.4 µg/mL iMatrix-511 substrate (diluted in PBS) on an appropriate number of wells of a 6-well plate
3. **For example**, for one well of a 6-well plate (9.6 cm²/well) add 4.8 µL of iMatrix-511 (2.4 µg) in 0.99 mL of PBS.
4. Incubate for 1 hour at 37 °C, 3 hours at room temperature, or overnight at 4 °C.
5. Remove remaining fluid from the coated surface. No rinse is needed.
6. Immediately plate the cells at the desired density.

Notes

- Do not allow the plate to dry.
- Briefly spin down all liquid in the tube before use.

Usage

Cat. No.	Description	Approximate Usage (6-well)
NP892011	iMatrix-511, 350 µg (2 vials x 175 µg)	145 wells
NP892012	iMatrix-511, 1050 µg (6 vials x 175 µg)	435 wells

REPROCELL USA Inc

9000 Virginia Manor Road
Suite 207
Beltsville, MD 20705
USA

Tel: +1 301 470 3362

Email: info-us@reprocell.com

REPROCELL Europe Ltd

Thomson Pavilion, Todd Campus
West of Scotland Science Park
Acre Road Glasgow
G20 0XA
UK

Tel: +44 (0)141 465 3460

Email: info-emea@reprocell.com

REPROCELL India Ltd

3-1-135/1A, CNR Complex
Mallapur
Hyderabad 500 076
Telangana
India

Tel: +44 (0)141 465 3460

Email: Bhargavi.Gurram@reprocell.com

REPROCELL Inc (Japan)

MetLife Shin-yokohama 381, Bldg. 9F
3-8-11, Shin-yokohama Kohoku-ku,
Yokohama
Kanagawa 222-0033
Japan

Tel: +81 45 475 3887

Email: info-asia@reprocell.com

www.reprocell.com



PR-STEMGENT-STEMRNANM-iMatrix-511-D001