

# Cellnest

Lyophilized - 25 mg - Catalog # 1063967

## INTENDED USE

For further manufacturing use only. Not for human use, not for diagnostic use.

## PRODUCT DESCRIPTION

Cellnest recombinant peptide is a chemically defined matrix polypeptide, based on human collagen type I. Because of its well defined composition and the enrichment with RGD sequences, Cellnest gives optimal cell adhesion and proliferation results.

Cellnest is free of animal derived materials, and compatible with hMSC expansion in PRIME-XV MSC Expansion XSFM (FUJIFILM Irvine Scientific product catalog number # 91149). The recommended concentration is 20 µg/cm<sup>2</sup>

## QUALITY ASSURANCE

All quality control test results are reported on a lot specific Certificate of Analysis which is available at [www.irvinesci.com](http://www.irvinesci.com), or upon request.

## SHIPPING

This product is shipped under cooled conditions (2 - 8°C). Upon receipt, store it immediately at the temperature recommended below.

## STORAGE INSTRUCTIONS AND STABILITY

Upon receipt, store this product at 2 - 8°C. In an unopened packaging, the product is stable until the expiration date mentioned on the package label when stored at 2 - 8°C. The reagent should not be used beyond the expiration date. Results may vary due to variations among human stem/ progenitor cells.

## PRECAUTIONS AND WARNINGS

The safety and performance of this product for human use, diagnostic use or other clinical uses has not been established.

## DIRECTIONS FOR USE

The optimal amount of Cellnest (Irvine Scientific, Catalog # 1063967) is dependent on the experimental design of each individual investigator. The recommended concentration as cell culture substrate is typically 5 - 40 µg/ cm<sup>2</sup>.

## COATING PROTOCOL

1. Prepare 0.5% Cellnest solution by gently adding 5 ml sterile water to the lyophilized Cellnest (Catalog #1063967) in the vial to make a concentration of 5 mg/mL.
2. Reassemble the cap on the vial and incubate the 0.5% Cellnest solution at 37°C for 10 minutes to fully dissolve the Cellnest.
3. Filter the 0.5% Cellnest solution through an 0.22 µm regenerated cellulose or PES filter to ensure sterility and bring the filter sterilized solution in a new sterile 15 ml centrifuge tube. Please use small diameter filters (13 mm) to minimize volume loss during filtration (eg Nalgene #720-1320). This 0.5% Cellnest solution can be stored at 2-8°C for six months or at -20°C for twelve months.
4. Dilute the 0.5% stock solution in PBS (IS # 9236) to a final concentration of 20 µg/cm<sup>2</sup> (Table 1).
5. Add the diluted coating solution to the desired culture vessel.
6. Incubate the plate at one of the following conditions. The culture vessel must be sealed with parafilm to avoid drying if stored at 2-8°C overnight. It is recommended to coat culture vessels the day of use or the day before use.
  - a. One hour at 37±2°C
  - b. Three hours at 15-30°C
  - c. Overnight at 2-8°C
7. Aspirate out and discard the Cellnest solution from culture vessels right before the addition of cells.

Table 1: Dilution table: advised volumes and dilutions ratios of 0.5% Cellnest in PBS buffer for coating 6 wells plates, T25 and T75 flasks with 20 µg/cm<sup>2</sup> Cellnest.

Culture Vessel	Finale Volume (mL)	PBS (mL)	Filter sterile 0.5% Cellnest (µL)	Cellnest per cm <sup>2</sup>	[Cellnest] ug/ml	[Cellnest] mM
6-well (9.6 cm <sup>2</sup> per well)	2.0	1.96	38.4	20	96	1.9
6-well plate (57.6 cm <sup>2</sup> per plate)	12.0	11.77	230.4	20	96	1.9
T-25 Flask (25 cm <sup>2</sup> per flask)	5.2	5.10	100.0	20	96	1.9
T-75 Flask (75 cm <sup>2</sup> per flask)	15.5	15.20	300.0	20	97	1.9

### TECHNICAL SUPPORT

This product is exclusively distributed by FUJIFILM Irvine Scientific. For more information or assistance contact our Customer Service at:

- Email: [tmrequest@irvinesci.com](mailto:tmrequest@irvinesci.com)
- Direct line: +1 800 577 6097

### WEBSITE RESOURCES

Visit the website at [www.irvinesci.com](http://www.irvinesci.com) for technical resources and information including:

- Safety Data Sheets (SDS)
- Certificate of Analysis (CoA) (when available)
- Product literature
- Complete list of offices and contact information by country