

Data Sheet

Normal Human Neonatal Dermal Fibroblasts

Catalog Number **5060**

DESCRIPTION

Normal human neonatal dermal fibroblasts are derived from foreskin. The fibroblast cells are cryo-preserved at passage 5 to ensure the highest viability and plating efficiency. Each vial contains a minimum of 1.5 million cells per vial.

Characteristics

Parameter, Testing, and Method	Normal Human Neonatal Dermal Fibroblasts Catalog No. 5060
Quantity	0.1 mg (100 µg/vial)
Volume	0.2 mL
Concentration	0.5 mg/mL
Purity	≥90% as measured by SDS PAGE
Formulation	Formulated in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, L-Arginine, DTT and Glycerol.
Form	Solution
Production Type	Recombinant – E. coli
Storage Temperature	-20 °C
Shelf Life	12 months after receipt
Sterilization Method	Filtration
Cell Attachment Activity	Passes
Sterility	No growth
Gene Symbols	ICAM2 (CD102)
Accession Number	NP_000864
Recombinant Protein Sequence	MASMTGGQQMGRGHHHHHGNLY FQGGEFELKVFEVHVRPKKLAVEPK GSLEVNCSTTCNQPEVGLETSLDK ILLDEQAQWKHYLVSNISHDTVLQC HFTCSGKQESMNSNVSVYQPPRQV ILTLQPTLVAVGKSFTIECRVPTVEPL DSLTLFLFRGNETLHYETFGKAAPA PQEATATFNSTADREDGHRNFSCLA VLDLMSRGGNIFHKHSAPKMLEIYE PVSDSQ

APPLICATIONS

This product is for R&D use only and is not intended for human or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

INSTRUCTIONS FOR USE

Use these recommendations as guidelines to determine the optimal coating conditions for your culture system.

1. Thaw ICAM2 and dilute to desired concentration using serum-free medium or PBS. The final solution should be sufficiently dilute so that the volume added covers the surface evenly.

Note: Use 1 ml PBS per well in a 6-well plate.

2. Add 1 – 10 µg protein to each well and incubate at 2 to 10°C overnight.

3. After incubation, aspirate remaining material.

4. Plates are ready for use. They may also be stored at 2-8°C damp or air dried if sterility is maintained.

Coating this recombinant protein at 1-10 µg / well (6 well plate) in neuronal cell specific medium can be used for 1) human lymphocyte cell / receptor interaction study *in vitro* and 2) as a culture matrix protein for anti-tumor immuno-response study *in vitro*.

REFERENCES:

(1) Staunton, D.E., et al. Functional cloning of ICAM-2, a cell adhesion ligand for LFA-1 homologous to ICAM-1. *Nature* 339 (6219), 61-64 (1989).

(2) Hiraoka, N., et al. CXCL17 and ICAM2 are associated with a potential anti-tumor immune response in early intraepithelial stages of human pancreatic carcinogenesis. *Gastroenterology* 140 (1), 310-321 (2011).

Cell Bank: Part Number TC1011 Lot Number 25126402
Description: Human, Fibroblasts, Passage 5, Vials
 Manufacturer's Working Cell Bank (MWCB)
Source Cells: Part Number TC1010 Lot Number 25126190
 Human, Fibroblasts, Passage 3, Vials
 Master Cell Bank (MCB)
Source Tissue: Foreskin
Mfg Date: October 21, 2005
Storage: LN2 – Liquid Phase
Contract Mfg By: Cambrex BioScience
Documentation: On file at Cambrex BioScience

Pre-Cryopreservation Testing		Specification	Result	Documentation
Sterility	Passage 3	Negative	Negative	C of A ¹
Sterility	Passage 4	Negative	Negative	C of A ¹
Sterility	Passage 5/ Pre-freeze	Negative	Negative	C of A ¹
Post Thaw Testing		Specification	Result	Documentation
Cell Viability	Passage 5	≥85%	97%	C of A ¹
Cell Count (Viable cells/vial)	Passage 5	>1.5M cells/vial	4.87M cells/vial	C of A ¹
Sterility	3 random vials	Negative	Negative	C of A ¹
Endotoxin (EU/mL)	Passage 5	Report value	<0.05	C of A ¹
Mycoplasma	Passage 5	Negative	Negative	Attached
Donor Eligibility		Specification	Result	Documentation
Donor Eligibility @ (Initial) ²		Pass	Pass	C of A ¹ Attached
Donor Eligibility @ (6 months) ²		Pass	Pass	C of A ¹ Attached
Anti-CMV-IgM @ (Donor Eligibility & 6 months) ²	Blood/Serum Sample	Pass	Pass	C of A ¹ Attached
Anti-EBV-IgM @ (Donor Eligibility & 6 months) ²	Blood/Serum Sample	Pass	Pass	C of A ¹ Attached

¹ Results maintained at contract manufacturing site
 (Cambrex – now Lonza, Inc. Walkersville, MD)

² Includes serum/blood viral results

Human, Neo-natal Fibroblast Cells

Cell Bank: Part Number TC1011 Lot Number 25126398
Description: Human, Fibroblasts, Passage 5, Vials
 Manufacturer's Working Cell Bank (MWCB)
Source Cells: Part Number TC1010 Lot Number 25126166
 Human, Fibroblasts, Passage 3, Vials
 Master Cell Bank (MCB)
Source Tissue: Foreskin
Mfg Date: October 13, 2005
Storage: LN2 – Liquid Phase
Contract Mfg By: Cambrex BioScience
Documentation: On file at Cambrex BioScience

Pre-Cryopreservation Testing		Specification	Result	Documentation
Sterility	Passage 3	Negative	Negative	C of A ¹
Sterility	Passage 4	Negative	Negative	C of A ¹
Sterility	Passage 5/ Pre-freeze	Negative	Negative	C of A ¹
Post Thaw Testing		Specification	Result	Documentation
Cell Viability	Passage 5	≥85%	97%	C of A ¹
Cell Count (Viable cells/vial)	Passage 5	>1.5M cells/vial	3.3M cells/vial	C of A ¹
Sterility	3 random vials	Negative	Negative	C of A ¹
Endotoxin (EU/mL)	Passage 5	Report value	<0.05	C of A ¹
Mycoplasma	Passage 5	Negative	Negative	Attached
Donor Eligibility		Specification	Result	Documentation
Donor Eligibility @ (Initial) ²		Pass	Pass	C of A ¹ Attached
Donor Eligibility @ (6 months) ²		Pass	Pass	C of A ¹ Attached
Anti-CMV-IgM @ (Donor Eligibility & 6 months) ²	Blood/Serum Sample	Pass	Pass	C of A ¹ Attached
Anti-EBV-IgM @ (Donor Eligibility & 6 months) ²	Blood/Serum Sample	Pass	Pass	C of A ¹ Attached

¹ Results maintained at contract manufacturing site
 (Cambrex – now Lonza, Inc. Walkersville, MD)

² Includes serum/blood viral results