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MCE Basement Membrane Matrix

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Transition from traditional 2D cell culture to 3D culture models



Basement Membrane Matrix

 Rigorous verification of product functionality

 Applicable to multiple research areas

 Excellent lot-to-lot consistency

 LDEV-Free

產品應用與他牌對應表

MCE Cat. No.	Product Name	Matrigel Matrix Cat. No.	Application	Protein concentration
HY-K6001	Basement Membrane Matrix (Phenol Red)	354234-10ml	2D, 3D cell culture, angiogenesis, cell invasion, etc	8-12 mg/ml
HY-K6002	Basement Membrane Matrix	356237		
HY-K6003	Basement Membrane Matrix GFR (Phenol Red)	354230-10ml	Organoids culture	8-12 mg/ml
HY-K6004	Basement Membrane Matrix GFR	356231		
HY-K6005	Basement Membrane Matrix HC (Phenol Red)	354248	Suitable for in vivo tumorigenic assay, 3D tumor sphere culture	>16 mg/ml
HY-K6008	Basement Membrane Matrix HC	354262		
HY-K6006	Basement Membrane Matrix iPSC-qualified	354277	Stem cell culture	8-12 mg/ml
HY-K6007	Basement Membrane Matrix for Organoid Culture	356255	Organoids culture	8-12 mg/ml
HY-K6009	Basement Membrane Matrix GFR & HC	354263	3D cell culture, organoids culture	>16 mg/ml

Star Products — Stem cell culture: ES, hESC, iPSC (HY-K6006)

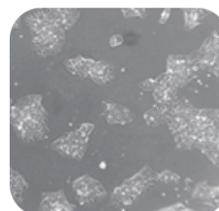
Experiment validation

• Stem Cell Adhesion

Maintains stem cell cultures without differentiation in 0.013 mg/cm² matrix-coated plates.

• Stem Cell Transmission

Basement Membrane Matrix iPSC-qualified supports stable stem cell propagation and expansion.



hESC (H9) cells on Day 3

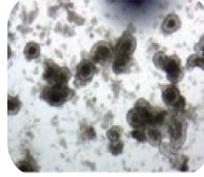


Basement Membrane Matrix for Organoid Culture (HY-K6007)

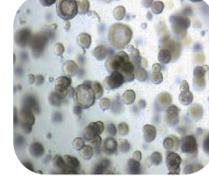
Experiment validation

• Organoids culture

Basement Membrane Matrix provides substrate for organoid formation in three-dimensional space structure.



Mouse small intestine organoid culture on Day 4



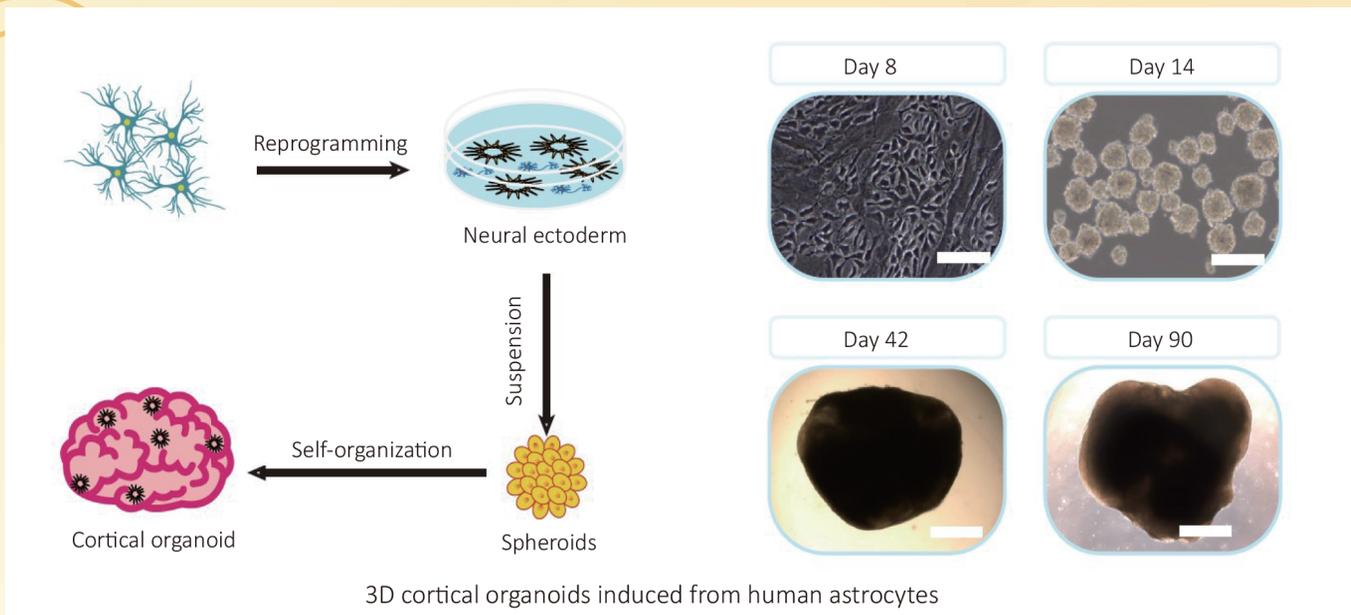
Mouse respiratory epithelial organoid culture on Day 4

Customer Validation^[1]

Cell Line: Human astrocytes

Method: Human astrocytes were directly reprogrammed into early neuroectodermal cells via the overexpression of OCT4, the suppression of p53 and the provision of the small molecules CHIR99021, SB431542, RepSox and Y27632.

Result: After suspension at day 14, the induced cells were aggregated as spherical structures. The size of the spheroids was about 3 mm at day 90 and reached 4-5 mm when the spheroids were cultured over 15 weeks.



Publications Citing Use of MCE Basement Membrane Matrix (Phenol Red)

- Adv Funct Mater. 2024 Oct 04.
- Autophagy. 2025 Aug;21(8):1680-1699.
- J Transl Med. 2025 Jan 13;23(1):48.
- Bioorg Chem. 2025 Dec 26:169:109422.
- J Cell Mol Med. 2025 Dec;29(24):e70968.
- Cell Biol Toxicol. 2025 Aug 4;41(1):123.
- Biochem Pharmacol. 2025 Mar 28;116:904.
- J Inflamm Res. 2025 Mar 10;18:3469-3484.
- Mol Cancer Res. 2024 Dec 3;22(12):1102-1116.
- ACS Omega. 2024 Jan 16;9(4):4974-4985.
- J Biochem Mol Toxicol. 2025 Nov;39(11):e70580.
- J Cell Commun Signal. 2025 May 25;19(2):e70020.
- Discov Oncol. 2025 Jan 9;16(1):27.
- Cell Biochem Biophys. 2025 Jun;83(2):2471-2480.
- Oncol Rep. 2024 Dec;52(6):173.
- Heliyon. 2024 May 1;10(9):e30603.
- Biochem Genet. 2025 Jul 1.
- Biochem Genet. 2025 Jul 15.

