

CERTIFICATE OF ANALYSIS

PRODUCT: Corning® Matrigel® Matrix for Organoid Culture, Phenol Red-free, 10 ml Vial
CATALOG NUMBER: 356255

LOT NUMBER: 3115928

SOURCE: Engelbreth-Holm-Swarm (EHS) Mouse Tumor
FORMULATION: Dulbecco's Modified Eagle's Medium with 50 µg/mL gentamycin.

ORGANOID CULTURE: Corning Matrigel matrix for organoid culture has been verified to support the growth of mouse intestinal organoids for more than 7 passages with typical budding morphology and marker expression¹ using HUB Organoid Technology methods*. This product has also been verified to support the formation of polarized 3D structures of primary human airway epithelial cells expressing typical markers².

STORAGE: Store at -20°C. Avoid multiple freeze-thaws. Do not store in frost-free freezer. **KEEP FROZEN.**

QUALITY CONTROL:

Specification	Criteria	Result
Protein Concentration	Results obtained by Lowry method and represented in mg/mL.	9.0
Endotoxin	Endotoxin units (EU/mL) are measured by Limulus Amoebocyte Lysate assay.	<1.5
Elastic Modulus (matrix stiffness)	Elastic modulus (Pa) is measured by single frequency oscillatory measurements using a parallel plate rotational rheometer. The plateau of the elastic component of the shear modulus (G') at 37°C is reported as the elastic modulus.	91.2
Dome Formation and Maintenance	Tested for ability to form and maintain droplets on pre-incubated TC-treated 24-well surface. The 50 µL droplets were made with Corning Matrigel matrix for organoid culture (diluted to 7 mg/mL with DMEM) and 750 µL of DMEM was added to each well. These droplets were maintained for a period of 7 days in a humidified incubator at 37°C.	PASS
Gelling	Tested for ability to gel quickly and maintain this form with culture medium for a period of 14 days at 37°C.	PASS
Biological Activity	Biological activity is determined using a neurite outgrowth assay. Chick dorsal root ganglia are plated on a 1.0 mm layer of Corning Matrigel matrix. Tested for a positive neurite outgrowth response after 48 hours without addition of nerve growth factor.	PASS
Sterility	Tested for the presence of bacteria, fungi, and mycoplasma.	NEGATIVE
MAP Test	Mouse colonies screened for Sendai, MHV, PVM, TEMV/GDVII, Ectro, Polyoma, MRV/EDIM, LCM, MCMV, M.Ad, Reo, MPV, LDEV/LDHV, MTV, Hantaan, K, RCMV, CARB	NEGATIVE
PCR Test	Tumor source tested for <i>Mycoplasma spp.</i> , <i>Helicobacter</i> , LDEV/LDHV, Sendai, MHV, PVM, MMV/MVM, MPV, Reo (1, 2, 3), MRV/EDIM, Ectro, LCM, K, MTV, Polyoma, Hantaan, Seoul, M. Ad (1, 2), MCMV, Norovirus, TMEV/GDVII, KRV, Toolan's H-1, RCV/SDA. Finished goods tested for LDEV/LDHV.	NEGATIVE

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SAFETY RECOMMENDATION: Handle in accordance with good industrial hygiene and laboratory safety practices

Expiration Date: June 17, 2025

Quality Assurance Elizabeth B Hartigan

Date May 25, 2023

References:

1. Application note (Corning Lit. Code CLS-AN-542). Culture of mouse intestinal organoids in Corning Matrigel matrix for organoid culture.
2. Application note (Corning Lit. Code CLS-AN-534). High throughput gene expression analysis of 3D airway organoids.

*Should you intend to use the HUB organoid technology for commercial purposes, please contact the HUB at info@hub4organoids.nl.