

CERTIFICATE OF ANALYSIS

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

LOT NUMBER: 9287005

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. | 10.1 |
| Endotoxin | Endotoxin units (EU/mL) are measured by Limulus Amoebocyte Lysate assay. | 3.619 |
| 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. | 82.73 |
| 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: January 25, 2022

Quality Assurance

Chopla M. 26

Date

December 12, 2019

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.