

GrowDex®-T Hydrogel is a bio-friendly hydrogel extracted from birch and sourced from sustainable and responsibly managed forests. GrowDex®-T is a transparent negatively charged hydrogel that consists of nanofibrillar cellulose (1.0% w/v) and 99.0% purified water. The transparent nature of GrowDex®-T makes it ideal for use in brightfield and phase contrast microscopy applications as well as high content imagers. GrowDex®-T is ready to use and can be mixed directly with cells and culture media, no gelation or cross-linking step required. Ambient handling and shear thinning properties of GrowDex®-T enable easy dispensing and use in automated systems. The key properties of GrowDex®-T are:

- Animal-free: Xeno-free with no detectable endotoxins, GrowDex®-T is pH neutral and supplied in a user friendly syringe for convenience and ease of use
- Ready to use: No cross-linking, no gelation, no sonication or any other steps required prior to use - just mix with media and cells, dispense and incubate
- Biocompatible: Nanofibrillar network allows easy diffusion of small molecules, such as nutrients and oxygen, supporting the culture of various cell types
- Microscope and imaging compatible: GrowDex®-T is not auto-fluorescent, is compatible with microscope and cell imaging systems and can be used for brightfield, phase contrast or fluorescence image capture
- Room temperature stable: Stored, shipped and used at room temperature, this stable hydrogel eliminates the need for temperature control, costly transportation and is ideal for use in liquid handling system for the automation of any cell-based assay
- Reproducible lots: Raw material supply, production procedures and quality control checks ensure that GrowDex®-T is manufactured reproducibly to the highest standards
- Tunable viscosity: The viscosity "stiffness" of GrowDex®-T can be tuned by dilution with media

Being a completely xeno-free hydrogel, GrowDex®-T enables complete control over the culture environment for cells. This flexibility has enabled GrowDex®-T to be used in a wide variety of assays culturing cells from many different sources, such as 3D organoid formation, stem cell proliferation and differentiation, tumour cell migration and invasion, neurite outgrowth and network formation, regenerative medicine and tissue engineering.

Note: GrowDex®-T is supplied at a concentration of 1.0%, it is not a concentrate.

Technical Specifications

- Manufactured under GMP conditions
- The product is supplied sterile
- 1.0 % solution (w/v) of nanofibrillar cellulose, 99% purified water
- Transparent, not autofluorescent, suitable for microscopy studies
- Devoid of animal-derived material, endotoxins and pathogens
- Biocompatible with human cells and tissues
- Supplied in syringe packaging for simple, accurate dispensing

For Research Use Only. Not for use in diagnostic or therapeutic procedures.