

Product Datasheet

Tissue Clearing Pro-Organoid 7390-NOV

Unit Size: 1 Pack

Store at RT

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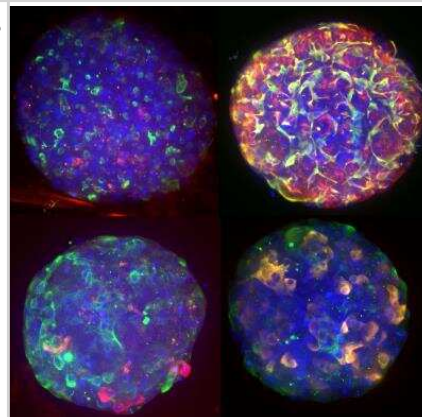


7390-NOV**Tissue Clearing Pro-Organoid**

Product Information	
Unit Size	1 Pack
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at RT
Product Description	
Description	<p>Tissue Clearing Pro-Organoid is a rapid, easy-to-use, reversible and non-destructive kit, which allows effective tissue clearing and staining of organoids, 3D cell cultures and microtissues. This organoid tissue clearing kit allows 3D cell cultures up to 500 μm thick to be cleared in minutes, and is compatible with fluorescent protein, immunolabeling and small molecule staining techniques, as well as being suitable for use with all standard dyes and buffers. Following 3D imaging, Tissue Clearing Pro-Organoid can be reversed for follow-up 2D histology staining. The kit comes with a getting started guide and a more comprehensive tissue clearing guidebook, providing detailed protocols. Tissue Clearing Pro-Organoid kit contains 30 mL of Tissue Clearing Pro-Organoid clearing reagent plus the 4 buffer solutions required to process 3D cell cultures for immunolabeling and is enough to process three 96-well plates of material.</p> <p>A wide range of IHC validated antibodies are available from R&D Systems and Novus Biologicals; optimization of antibody incubation conditions for use with the Tissue Clearing Pro-Organoid technique is recommended.</p> <p>Please read the Tissue Clearing Pro-Organoid guidebook for more information and detailed protocols for using this kit.</p>
Kit Components	Tissue Clearing Pro-Organoid Reagent, Antibody Buffer, Blocking Buffer, Penetration Buffer, 10X Wash Buffer, Getting Started Guide
Notes	<p>Store at room temperature. Once opened, store Tissue Clearing Pro Antibody Buffer, Blocking Buffer, Penetration Buffer, and Washing Buffer 10X at 2-8C.</p> <p>Store Tissue Clearing Pro-Organoid Reagent at room temperature in a dry environment. This product can be stored for up to 6 months from date of receipt.</p>
Product Application Details	
Application Notes	<p>The Tissue Clearing Pro-Organoid kit is designed specifically for use with 3D cell cultures, organoids and microtissues. It is able to clear samples with minimum changes to morphology and without compromising the sensitivity of detection with almost any fluorophore. With this easy-to-use protocol, 3D cell cultures up to 500 μm in thickness can be cleared within minutes, without using any special instrument or equipment. The clearing workflow is compatible with most fluorophores including fluorescent proteins, which can be detected with typical fluorescent imaging instruments such as wide-field, confocal, and light sheet microscopes, and high-content analyzers. The Tissue Clearing Pro-Organoid technique is strong enough to adequately clear tissue for 3D fluorescent imaging, but not so harsh as to change the overall tissue morphology. Minimum morphological changes such as shrinkage or contraction have been observed. For precious samples, the clearing can be reversed, and tissue can be processed for histology studies such as H&E staining.</p>

Images

Tissue Clearing Pro-Organoid [7390-NOV] - Kit (Cat. No 7390-NOV) was applied to Open Liver HepaRG NP spheroids, allowing visualization of stained structures: Upper left DNA, MRPII and MDRI; Upper right DNA, CD68, Albumin and Vimentin; Lower Left DNA, panCK and CD31; Lower right Right DNA, panCK and Cytochrome P450 3A4.



Tissue Clearing Pro-Organoid [7390-NOV] - is a rapid, easy-to-use, reversible and non-destructive kit, which allows effective tissue clearing and staining of organoids, 3D cell cultures and microtissues. kit contains 30 mL of clearing reagent plus the 4 buffer solutions required to process 3D cell cultures for immunolabeling and is enough to process three 96-well plates of material.





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

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