

# Compatibility of Mounting Media on Thermo Scientific Nunc Permanox Slides

We use two types of surfaces for Thermo Scientific Nunc Lab-Tek Chamber Slide System, glass and plastic. One of the plastics used is Thermo Scientific Nunc Permanox, which is a special, oxygen permeable polymer.

This polymer has excellent optical qualities and is resistant to many commonly used solvents such as acids, alkalis, organic solvents such as ethanol and some

hydrocarbons such as ethylene glycol.

However, Nunc™ Permanox™ is not chemically compatible with any organic reagent containing solvents such as xylene or toluene. These solvents will warp the slides.

The following table lists some aqueous mounting media that can be used on the Lab-Tek™ Permanox slides for various applications. Permanox slides were

coverslipped with the different mounting media listed in the table. Mounting medium/slide compatibility was determined by the degree of warpage after one week at room temperature. The mounting medium application is as recommended by manufacturer's product information. Stain/mounting medium compatibility must be optimized for each application.

Media Company Product Name	Product Description	Media Application	Compatible with Permanox Plastic
<b>Thermo Scientific Shandon Permafluor</b>	<b>Aqueous</b> <ul style="list-style-type: none"> <li>• Permanent</li> <li>• Recommended storage: 2-8°C</li> <li>• Use room temperature</li> </ul>	<b>Fluorescence microscopy</b> <ul style="list-style-type: none"> <li>• Enhances FITC intensity and reduces fading</li> </ul>	Yes
<b>Thermo Scientific Shandon Immu-Mount</b>	<b>Aqueous</b> <ul style="list-style-type: none"> <li>• Permanent</li> <li>• Recommended storage: room temperature</li> </ul>	<b>Immunocytochemical staining with frozen sections</b>	Yes
<b>Biomedica Gel Mount</b>	<b>Aqueous</b> <ul style="list-style-type: none"> <li>• Permanent</li> <li>• Recommended storage: room temperature</li> </ul>	<b>Immunofluorescence</b> <ul style="list-style-type: none"> <li>• Use in conjunction with fluorescein, rhodamine, Texas Red and Phycobiliproteins</li> </ul>	Yes
<b>Biomedica Crystal Mount</b>	<b>Aqueous</b> <ul style="list-style-type: none"> <li>• Permanent</li> <li>• Recommended storage: room temperature</li> <li>• No coverslips required</li> <li>• Heat slide in oven 70-80°C, 10 minute</li> </ul>	<b>Immunocytochemical staining (AEC, BCIP, NBT, DAB)</b> <ul style="list-style-type: none"> <li>• Immunofluorescence</li> <li>• Compatible with common fluorochromes</li> </ul>	No* *Slides can warp if heated
<b>Vector Laboratories Vectashield</b>	<b>Aqueous</b> <ul style="list-style-type: none"> <li>• Not Permanent</li> <li>• Recommended storage: 4°C in dark</li> </ul>	<b>Immunofluorescence</b>	Yes

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