Thermanox™ Coverslips
Product No 26025-26031

Thermanox™ coverslips, are made of a polymer that is highly resistant to most chemicals. Thermanox™ is resistant to alcohols, aldehydes, hydro carbons, dilute acids (<10%) and dilute alkalis (<2%). Thermanox has limited resistance to chlorinated hydrocarbons, however, it is not resistant to concentrated acids or bases. It is a flexible, transparent polymer that can be sectioned using a microtome and is able to withstand high temperatures (-70°C to + 150°C).

Thermanox™ Coverslips are available in two formats,
Rectangular:
10.5 x 22 mm (Product No. 26025)
22 x 60 mm (Product No. 26026)
24 x 30 mm (Product No. 26027)
Round:
13 mm diameter (Product No. 26028)
15 mm diameter (Product No. 26029)
22 mm diameter (Product No. 26030)
25 mm diameter (Product No. 26031)

Thermanox™ Coverslips are culture treated on one side for enhanced cell attachment and growth. The treated side is packaged face up toward the label. A simple method to determine which side of the coverslip is treated is the "droplet" test. A drop of water or culture medium will spread on the hydrophilic, treated side. The procedure is as follows: • Put a drop of sterile media or water on the coverslip. • If the droplet forms a bead, then the side of the coverslip is not treated. • If the droplet spreads evenly over the coverslip, the side is treated.

The following tables list the chemical resistance for Thermanox™ Coverslips.

Chemicals having no effect on Thermanox™ plastic

1,2-dichloroethane	cellosolve acetate
1,4-dioxane	chloroform
1-bromonaphthalene	cyclohexane
acetone	cyclohexanol
acetonitrile	cyclohexanone
ammonium hydroxide (2%)	diacetone alcohol
benzene	diethylene glycol
butyl cellosolve	diethylenetriamine
carbon tetrachloride	dimethylsulfoxide
cellosolve	ethanol

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ethanolamine	methanol
ethyl acetate	methyl alcohol
ethyl alcohol	methyl ethyl ketone
ethylene glycol	methyl isoamyl ketone
ethylene glycol	methyl isobutyl ketone
monomethyl ether acetate	n-heptane
formamide	nitric acid (10%)
glacial acetic acid	n-butyl alcohol
glycerol	n-propyl alcohol
heptane	sec-butyl alcohol
hexyl alcohol	sodium hydroxide (2%)
hydrochloric acid (10%)	sulfuric acid (20%)
isobutyl alcohol	tetrahydrofuran
isopropanol	toluene
isopropyl acetate	trichloroethylene
isopropyl alcohol	xylene

Chemicals that attack Thermanox™ plastic

1,1,2,2-tetrachloroethane	o-chlorophenol
acetic acid	o-dichlorobenzene
acetic anhydride	phenol/tetrachloroethane
acetone	sodium hydroxide (10%)
ammonium hydroxide (10%)	sulfuric acid (50%)
benzene	tetrahydrofuran
carbon tetrachloride	toluene
chloroform	
dichloroacetic acid	
dimethylformamide	
ethyl acetate	
ethylenediamine	
hexafl uoroisopropanol	
hydrochloric acid (conc.)	
methyl cellosolve	
methyl cellosolve acetate	
methyl ethyl ketone	
methyl n-amyl ketone	
methylene chloride	
m-cresol	
nitric acid (35%)	
n-butyl acetate	
n-butylamine	
n-propyl acetate	
n-propylamine	

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