thermoscientific

Chemical Compatibility Guide for Thermo Scientific Sample Storage Products

	Tubes					Septum Caps	Gasket	Plates		Accessories				
	Matrix 2D Barcoded Open Top & Screw-top Tubes (PP)	Matrix 2D Barcoded Glass Tubes (Glass)	Nunc Universal, Cryobank & Bank-it Tubes (PP)	Nunc Biobank-ing & Cell Culture Tubes & Long Term Storage Tubes (PP)	Nalgene General Long-Term Storage Cryogenic Tubes (PP)	Matrix DuraSeal and SepraSeal Closures (TPV)	Screw Cap Gasket (TPE*)	Nunc Storage Micro-plates (PP)	Abgene Storage Plates (PP)	Latch Racks (PC) for Matrix 2D Screw-top, Nunc Universal & Nunc Cryobank Tubes (excludes PP latches)	Latch Racks for Matrix Open Top Tubes (PP)	Nalgene & Nunc Polycar-bonate Cryobox-es (PC)	Color Coders for Nalgene General Long Term Storage Cryogenic & Nunc Biobank-ing & Cell Culture Tubes (PS)	Matrix & Nunc 2D Barcodes (PP)
Chemical or Solution	During proper use, materials come into direct contact with solutions listed in left column									During proper use, materials are not in direct contact with solutions**				
Acids														
Hydrochloric acid (25%)	R	R	R	R	R	R	R	R	R	LR	R	LR	R	R
Nitric acid (25%)	NR	R	NR	NR	NR	NR	NR	NR	NR	LR	LR	LR	LR	LR
Alcohols														
Butanol	R	R	R	R	R	NR	NR	R	R	R	R	R	R	R
Ethanol (100%)	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Methanol	R	R	R	R	R	R	R	R	R	R	R	R	LR	R
Amines														
Aniline	R	R	R	R	R	NR	NR	R	R	NR	R	NR	NR	R
Dimethylformamide	R	R	R	R	R	NR	NR	R	R	NR	R	NR	NR	R
Bases														
Ammonium hydroxide (25%)	R	R	R	R	R	R	R	R	R	NR	R	NR	R	R
Ammonium hydroxide (1N)	R	R	R	R	R	R	R	R	R	LR	R	LR	R	R
Sodium hydroxide	R	R	R	R	R	R	R	R	R	NR	R	NR	R	R
Hydrocarbons														
Hexane	R	R	R	R	R	NR	NR	R	R	LR	R	LR	NR	R
Toluene	NR	R	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Xylene	NR	R	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dioxane	LR	R	LR	LR	LR	NR	NR	LR	LR	NR	LR	NR	NR	LR
Dimethylsulfoxide (DMSO) (100%)	R	R	R	R	R	LR	LR	R	R	NR	R	NR	NR	R
Dimethylsulfoxide (DMSO) (10%)	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Halogenated Hydrocarbons														
Chloroform	NR	R	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylene chloride	NR	R	NR	NR	NR	NR	NR	NR	NR	NR	LR	NR	NR	LR
Ketones														
Acetone	LR	LR	LR	LR	LR	NR	NR	LR	LR	NR	R	NR	NR	R
Methyl ethyl diketone	R	R	R	R	R	NR	NR	R	R	NR	R	NR	NR	R
Common Aqueous Solutions														
Glycerol	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEG	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PBS	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Acetonitrile	R	R	R	R	R	NR	NR	R	R	NR	R	NR	NR	R
TE (Tris-EDTA)	R	R	R	R	R	R	R	R	R	R	R	R	R	R
DEPC	R	R	R	R	R	LR	LR	R	R	LR	R	LR	LR	R

Legend	
R	Recommended. Product material is recommended for use with chemical or solution.
LR	Limited. Product material shows limited compatibility with the chemical or solution. Testing is highly recommended for your specific application.
NR	Not Recommended. Product material is not recommended for use with chemical or solution.

PS	Polystyrene
PP	Polypropylene
PC	Polycarbonate
TPE	Thermoplastic elastomer
TPV	Thermoplastic vulcanizate

* Includes only TPE resins manufactured for Thermo Scientific sample storage products and not all TPE resins. For a list of specific TPE resins contact **ROCregsupport@thermofisher.com**

**These materials are peripheral to sample storage tubes and would not be storing or coming into direct contact with the solutions listed. Recommendation guidelines above are based on direct contact.

PFLSPSTORAGECHEM 0716

ThermoFisher SCIENTIFIC