

# Mini-UniPrep Syringeless Filter Chemical Compatibility Guide



**Agilent Technologies**

## Chemical Compatibility of Membrane

- Polytetrafluoroethylene (PTFE) is for aggressive samples, and has great chemical compatibility.
- Nylon membrane is used for aqueous and organic samples within a pH range of 3-10
- Polypropylene (PP) membrane is used for solvent-based samples with low water break-through values.
- Regenerated Cellulose (RC) is for use with either aqueous or organic solvents. Very low nonspecific protein binding membrane.

Solvent	PTFE	Nylon	PP	RC	Solvent	PTFE	Nylon	PP	RC
Acetic Acid 5% +	R	R	R	R	Formaldehyde	R	R	R	R
Acetic Acid, Glacial	R	LR	R	NR	Formic Acid	R	NR	R	LR
Acetone	R	R	R	R	Freon TF	R	R	R	+
Acetonitrile	R	R	R	R	Hexane	R	R	R	R
Ammonia, 6N	R	R	R	LR	Hydrochloric Acid (Conc)	R	NR	LR	NR
Amyl Acetate	R	R	R	R	Hydrofluoric Acid	R	NR	LR	NR
Amyl Alcohol	R	R	R	R	Isobutyl Alcohol	R	+	R	R
Benzene *	R	LR	LR	R	Isopropyl Alcohol	R	+	R	R
Benzyl Alcohol *	R	LR	LR	R	Methanol	R	R	R	R
Boric Acid	R	LR	R	R	Methyl Ethyl Ketone	R	R	R	R
Butyl Alcohol	R	R	R	R	Methylene Chloride *	R	NR	LR	R
Butyl Chloride *	R	NR	NR	+	Nitric Acid (Conc)	R	NR	NR	NR
Carbon Tetrachloride *	R	LR	LR	R	Nitric Acid, 6N	R	NR	LR	LR
Chloroform *	R	NR	LR	R	Nitrobenzene *	R	LR	R	R
Chlorobenzene *	R	NR	LR	R	Pentane	R	R	R	R
Citric Acid	R	LR	R	R	Perchloro Ethylene	R	R	R	R
Cresol	R	NR	R	R	Phenol (0.5%)	R	R	R	R
Cyclohexane	R	R	R	R	Pyridine	R	LR	R	R
Cyclohexanone	R	NR	R	R	Sodium Hydroxide, 6N	R	LR	R	NR
Diethyl Acetamide	R	R	R	R	Sulfuric Acid (Conc)	R	NR	NR	NR
Dimethyl Formamide	R	R	R	LR	Tetrahydrofuran	R	R	LR	R
Dioxane	R	R	R	R	Tolulene *	R	LR	LR	R
DMSO	R	R	R	LR	Trichloroethane *	R	LR	LR	R
Ethanol	R	R	R	R	Trichloroethylene *	R	NR	LR	R
Ethers	R	R	R	R	Water	R	R	R	R
Ethyl Acetate	R	R	R	R	Xylene *	R	LR	LR	R
Ethylene Glycol	R	R	R	R					

R = Resistant, LR = Limited Resistance, NR = Not Resistant

+ = Insufficient Data, \* = Short term resistance of housing