

Thermo Scientific SPE Products

SPE Cartridge Selection

Thermo Scientific™ SPE products have been developed to meet the requirements of today's sample preparation challenges. Thermo Scientific SPE cartridges and 96-well plates are offered in a range of phases and bed weights, ideal for use in application areas such as: Pharmaceutical, Biochemical, Environmental, and Food and Beverage.

The following flow chart is designed to help in selecting the correct phase for the compound of interest.

SPE Phase Selection

Sample Matrix	Solubility of Sample	Polarity of Sample	Separation Mode	Recommended HyperSep Sorbent(s)
Aqueous	Water Soluble	Non-Polar	Reversed Phase	SOLA HRP, C18, C8, Phenyl, Retain PEP
		Moderately Polar	Reversed Phase	SOLA HRP, C18, C8, Retain PEP
		Polar	Reversed Phase	SOLA HRP, Hypercarb Retain PEP
		Cationic	Ion Exchange	SCX
		Anionic	Ion Exchange	SAX Aminopropyl
		Non-Polar & Cationic	Reversed Phase and Ion Exchange	SOLA SCX/WCX, Verify CX Retain CX
		Non-Polar & Anionic	Reversed Phase and Ion Exchange	SOLA SAX/WAX, Verify AX Retain AX
Aqueous	Organic Soluble	Non-Polar	Reversed Phase	SOLA HRP, C18, C8, Phenyl, Retain PEP
Organic	Organic Soluble	Polar	Normal Phase	Silica, Aminopropyl Cyano, Diol
		Moderately Polar	Normal Phase	Silica, Florisil, Aminopropyl Cyano, Diol
		Cationic	Ion Exchange	SCX
		Anionic	Ion Exchange	SAX Aminopropyl
		Non-Polar & Cationic	Reversed Phase and Ion Exchange	Verify CX
		Non-Polar & Anionic	Reversed Phase and Ion Exchange	Verify AX