thermo scientific

Choosing your SPE solution

Thermo Scientific™ solid phase extraction (SPE) phases	
Polymerics	**Applications include**
HyperSep™ Retain PEP Polystyrene divinylbenzene material surface modified with urea groups	• Drugs and metabolites in biological matrices • Environmental samples • Desalting of peptides in serum, plasma or biological fluids
HyperSep™ Retain-CX Versatile polymeric material for retention of basic compounds	• Drugs of abuse from biological matrices HyperSep C18
HyperSep™ Retain-AX Versatile polymeric material for retention of acidic compounds	• Acidic drugs of abuse from biological matrices (THC and its metabolites)
HyperSep™ Hypercarb Unique material for retention of highly polar compounds	• Retention and separation of highly polar species. Ideal for problem analytes in SPE applications
SOLA™ and SOLAμ™ HRP Next-generation polystyrene divinylbenzene material surface functionalized with pyrrolidone	• Extraction of polar and non-polar analytes, such as vitamin D biomarkers • Drugs and metabolites in biological matrices • Desalting of peptides in serum, plasma, or biological fluids
SOLA™ and SOLAμ™ SCX Next-generation polystyrene divinylbenzene material surface functionalized with sulphonate groups	• Enhanced retention of weak bases • Drugs and metabolites in biological matrices, such as synthetic cathinones • Desalting of peptides in serum, plasma, or biological fluids
SOLA™ and SOLAμ™ SAX Next-generation polystyrene divinylbenzene material surface functionalized with quaternary amine groups	• Enhanced retention of weak acids, such as 5-HIAA • Drugs and metabolites in biological matrices • Desalting of peptides in serum, plasma, or biological fluids
SOLA™ and SOLAμ™ WCX Next-generation polystyrene divinylbenzene material surface functionalized with carboxylic acid groups	• Enhanced retention of strong bases, such as acetylcholinesterase inhibitors • Drugs and metabolites in biological matrices • Desalting of peptides in serum, plasma, or biological fluids
SOLA™ and SOLAμ™ WAX Next-generation polystyrene divinylbenzene material surface functionalized with tertiary amine groups	• Enhanced retention of strong acids, such as niflumic acid • Drugs and metabolites in biological matrices • Desalting of peptides in serum, plasma, or biological fluids
Reversed-phase silica phases	**Applications include**
HyperSep™ C18 Highly retentive alkyl-bonded silica phase for non-polar to moderately polar compounds	• Drugs and their metabolites in biological matrices • Trace organics in environmental water samples • Toxins in food samples
HyperSep™ C8 Less retentive alternative to C18 for non-polar to moderately polar compounds	• Drugs and their metabolites in biological matrices • Trace organics in environmental water samples • Toxins in food samples
HyperSep™ Phenyl Alternative selectivity for retention of basic compounds	• Benzodiazepines in biological matrices • Extraction of aromatic compounds
Normal phase silica phases	**Applications include**
HyperSep™ Silica A polar sorbent primarily used to retain analytes from non-polar matrices	• Aldehydes • Pesticides • Carotenoids • Aflatoxins • Phospholipids • Amines • Herbicides • Fat soluble vitamins • Fatty acids
HyperSep™ Florisil Ideal for the isolation of polar compounds from non-polar matrices	• Pesticides using AOAC and EPA methods, as well as • Polychlorinated biphenyls (PCBs) in transformer oil
HyperSep™ Cyano For retention of polar compounds from non-polar matrices	• Retention of polar compounds from hexane and oil
HyperSep™ Aminopropyl A polar sorbent for both polar and anion exchange interactions	• Petroleum fractionation • Saccharides • Drugs and drug metabolites
HyperSep™ Diol For extraction of polar compounds	• Normal phase extraction • Purification of polar compounds
Ion-exchange phases	**Applications include**
HyperSep™ SAX (Strong anion exchanger) Strong anion exchange sorbent for extraction of weak acids	• Removal of acidic food pigments • Removal of phenolic compounds • Nucleic acids and surfactants
HyperSep™ SCX (Strong cation exchanger) Strong cation exchange sorbent for extraction of charged basic compounds	• Antibiotics • Organic bases • Catecholamines • Drugs • Amino acids • Herbicides
HyperSep™ Verify-CX Non-polar and anionic characteristics for improved analysis of basic drugs of abuse	• Basic drugs of abuse from biological matrices
HyperSep™ Verify-AX Non-polar and cationic characteristics for improved analysis of acidic drugs of abuse	• Acidic drugs of abuse from biological matrices • (THC and its metabolites)

Find out more at **thermofisher.com/speconsumables**

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