

Sample Preparation with **Samprep**[™] SPE Columns



Authorised Distributor:

ALPHA CHEMICALS SDN. BHD. (Company Reg. No. : 311736-H)

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Brought to you by:

RANKEM
Committed to Customers

put **RANKEM** reliability in your laboratory

CHOOSE FROM WIDE RANGE OF PHASES

- Reverse Phase Extraction: C18, C8, C2, CN.
- Normal Phase Extraction: Si, NH₂, CN.
- Cation Exchanger: Benzene Sulphonic Acid.
- Anion Exchanger: NH₂, Quaternary Amine.
- Mix Mode-I: Pharma Test I
Pharma Test II
- Polymer: Multi-Test

***Samprep* VS. LIQUID-LIQUID EXTRACTION (LLE)**

***Samprep* provides a number of critical benefits over LLE:**

- Improved selectivity and specificity.
- Higher recoveries.
- Enhanced interferences and particulates removal.
- Greater reproducibility.
- Reduced labour, ease of use.
- Faster processing of Multiple Samples.
- Greater flexibility for solvent miscibility.
- Elimination of emulsions.
- Decreased solvent consumption and hazardous waste.
- Reduced exposure to harmful solvents.
- Concentrates key analytes.
- Enhanced analytical sensitivity, improved analytical column longevity and resolution.
- Optimize separations.

Vacuum and Positive Pressure Processors and accessories For Solid Phase Extraction Columns Are Also Available. For Details, Please Contact Us.

Samprep *Quality for Reliable and Reproducible Results*

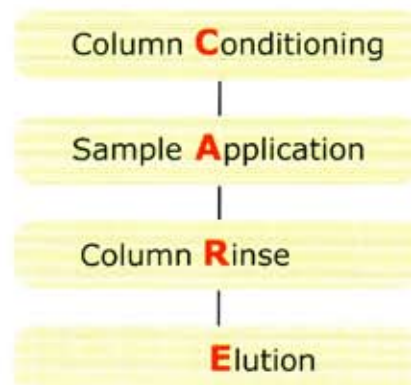
Your First Choice *Samprep*
Highest quality cartridges and the greatest selection available.

- Medical grade polypropylene cartridges with the lowest amount of extractible.
- Reproducible results, less variability, and a smooth transition to automated procedures.
- Tight quality control for particle size, surface activity, pH, flow rate, and interference.
- Negligible Lot to lot variation of sorbents.
- Packaging in hermetically sealed packets prevents contamination.
- Endcapped suitably to limit the interference from hydrophilic silanols.

- **Easy to Use**

Samprep Cartridges are simple to use and allow four-step sample preparation.

Prepare Sample with **CARE**:



Our technical support staff is available to assist you in method development.

Versatile

Samprep offers the largest selection of sorbents available packed into a multitude of cartridge configurations. Our cartridges can be used in a variety of applications, including:

- **Pharmaceutical**
- **Toxicology**
- **Environmental**
- **Biological**
- **Clinical**
- **Foods and cosmetics**
- **Agriculture and many more.....**

Samprep Selection Chart:

Reverse Phase				
Sorbent	Matrix	Isolate Functional Group	Elution Solvents	Applications
C2(Ethyl), C8(Octyl), C18(Octadecyl), CN (Cyano)	Aqueous: Buffers, Biological Fluids, Water.	Hydrophobic: Alkyl Chains, Aromatic Rings.	Hexane, Ethyl acetate, Acetonitrile, MeOH, Acidic MeOH.	Drugs of abuse, TCA, PCB, Phenols, Pesticides, Peptides, etc.
Normal Phase				
Si(Silica), NH ₂ (Amino), CN(Cyano)	Non Polar: Hexane, Lipids, Oils	Hydrophilic: Amines, Hydroxyls, Heteroatoms(O,S,N,)	Acetone, IPA, MeOH.	Phenols, Vitamin D Metabolites, Mycotoxins, Carbohydrates, Lipids, Oil Additives, Chloramphenicol, Cyclosporin, Beta Blockers, Cytochrome C, Trace Metals.
Cation Exchanger				
IX-BS(Benzene Sulphonic Acid)	Aqueous: Acidic Buffers, Biological Fluids, Water.	Amines	Alkaline Buffers, High Ionic Strength Buffers.	Pharmaceuticals, Aminocaproic acid, Catecholamines, Chlorophyll, Amino acids, Tetracycline, Gentamicin.
Anion Exchanger				
IX-QA (Quaternary Amine), IX-NH(Amino, NH ₂)	Aqueous: Basic Buffers, Biological Fluids, Water.	Carboxylic acids, Sulphonic acids, Phosphates.	Acidic Buffers, High Ionic Strength Buffers.	Vitamins, Organic acids, Fatty acids, Phosphates.
Pharma Test I				
Multiple Interactions	Aqueous: Acidic Buffers, Biological Fluids, Water.	Pharmaceutical Cationic Drugs of abuse.	Strong acids & bases, Organic mixtures with acids/bases.	Basic Drugs, Neutral Drugs.
Pharma Test II				
Multiple Interactions	Aqueous: Basic Buffers, Biological Fluids, Water.	Pharmaceutical Cationic Drugs of abuse.	Strong acids & bases, Organic mixtures with acids/bases.	Acidic Drugs, Neutral Drugs.
Multi Test				
Multiple Interaction Polymer	Biological Fluids	Pharmaceuticals	MeOH, (1:1) MeOH: THF	Acidic, Basic, Neutral Drugs.
Environmental Analysis				
Non Polar	Aqueous: Water, Effluent.	Hydrophobic: Aromatics, alkyls.	Hexane, DCM, Hexane/Ethyl acetate.	Oil & Grease, PAH's, Fats, Phenols, EPA 525, EPA 625.

For further information please contact:

Business Manager-Separations/Product Specialist-Separations

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