Evaporators

- 6 and 12 channels for tubes and vials
- 1 & 2 plate formats
- Heated both top and bottom

Robotic Liquid Handling Systems

- Several systems with different plate nests
- For 96- and 384-well plates
- Maximum channel volumes range from 125-1000 uL
- Format compatible with PSP

Legend

- Orochem Offices
- Distributors

OROCHEM
Molecular Purification by Design

For Free Consultation,
Please Enquire:
Dr. Anil Oroskar, PhD
Dr. Asha Oroskar, PhD

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OROCHEM
Molecular Purification by Design

ISO 9001:2008
MANUFACTURING IN USA SINCE 1996

Orochem has manufactured high quality Sample Preparation products, Chromatography Columns, Protein Research products, and High Throughput Sample Preparation devices for over 22 years in the United States. These products and technologies have been used globally by many Fortune 500 Companies.

Orochem provides end-to-end services from customer product design to method development.

Single Source

Sample Preparation Products:

High Throughput Filtration Products

Oro-flex polypropylene filter plate with 10 and 20 µm PE frits.

- Excellent for dilute and shoot mass spectrometry methods and high throughput screening applications.
- Both hydrophobic and hydrophilic membranes.
- 0.2 and 0.45 micron filters

Protein Crash Plate

- Orochem manufactured the 1st protein crash plate in the industry.
- 0.2 and 0.45 micron filters

Matrikleen Extraction Products

- New generation of phospholipid and protein removal plate.
- Patents 2016, and has been adapted by a Mayo Clinic Lab for routine analysis.
- Key application: Vitamin D metabolites in plasma and serum.

OroQ QuEChERS Dispersive Products

- For AOAC methods
- Orochem specialty for tea, green leaves, fruits, stevia and hemp.

SLLE Products

- Various sample sizes for clinical diagnostics labs.
- Key application: cortisone extractions from plasma.

Solid Phase Extraction Products:

Silica Based SPE Products

- Normal, Reversed and Ion-exchange Phases

Alumina Based SPE Products

- Neutral, Acid, and Basic Phases

Polymer Based SPE Products

Reversed Phases:

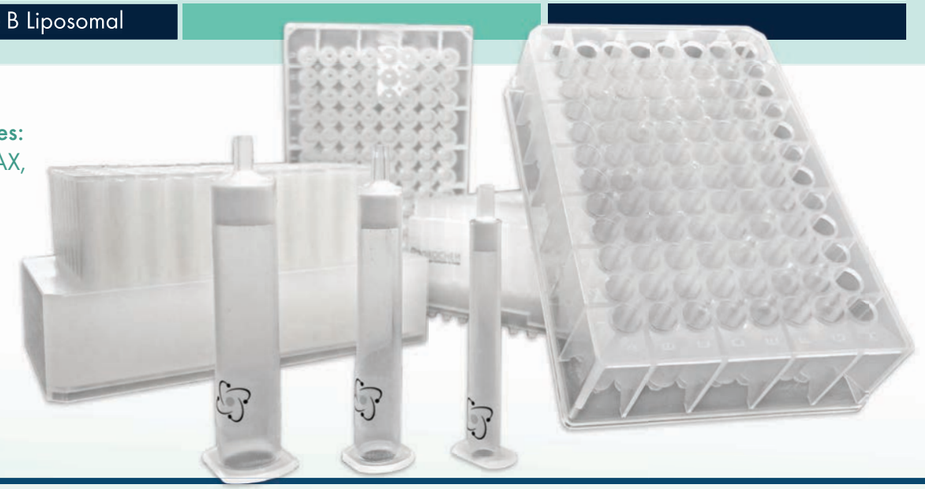
Celerity Deluxe products have been the major polymeric SPE products in global CROs for years.

Panthera Deluxe is the new generation. It has been quickly adopted by CROs.

- Higher performance and affordable
- Applications:

Amphetamines	Topiramate	Dapagliflozine
Benzodiazepines	Pregabalin	Doxorubicin
Opiates	Dolutegravir	Saxagliptin
Recreational drugs	Dapagliflozine	Memantine
Dolutegravir	Ibuprofen	Amphotericin
Lamivudine	Loratidine	Nitrofurantoin
Gefitinib	Bile Acids	Reloxifene
Tenofovir	Paliperidon	Albendazole
Sofosbeuvir	Chlorozoxazone	Pramipexole
Hydroxychloroquine	Isosorbide mononitrate	BUPIVACAINE Liposomal
Amphotericine B Liposomal		

Ion-exchanged Phases:
Agility SCX, SAX, WAX, WCX



Legacy Phases HPLC Columns

General Utility:

- Reliasil Column
- Phases: Silica, C1, C4, C8, C18, C30, NH2, CN, Phenyl, SCX, SAX, Diol, Polyamine, PFP.
- pH Range: 2-8.5
- C% Loading: 9

Separation of Polar, Semi-Polar, and Nonpolar Compounds at Low to Medium pH

- Orosil Column: Orosil C18 Column is used worldwide for analyzing azacitidine and impurities, as drafted in a USP method.
- Phases: C8, C18
- pH Range: 1.5-9.0
- C% Loading: 17

Analysis of Basic Compounds and Highly Polar Compounds:

- Prestige and Matrix Columns are highly base-deactivated stationary phases.
- Phases: C8, C18, Matrix AQ
- pH Range: 2-8.5
- C% Loading: 16

For Challenging Pharmaceutical and Peptide Separations:

- Monitor Columns: Orochem's top quality columns
- Phases: Silica, C8, C18
- pH Range: 2-8
- C% Loading: 17

Chiral Phases HPLC Columns

- Epitomize Chiral Columns
- Polysaccharide-based chiral station
- Coated and covalently-bound
- Particle Size: 1.7, 3.5, 10 micron
- Chiral library for over 50 compounds

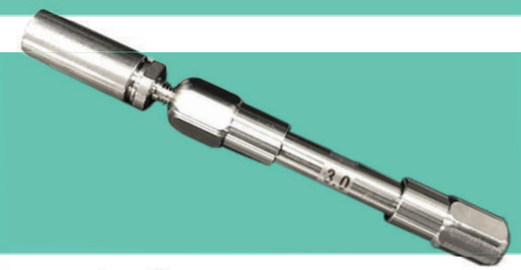
Chromatography Products:

UHPLC Columns

Gazelle UHPLC Columns

- C18, Biphenyl, Amino
- Particle Size: 1.7 micron
- Key applications: Amphetamines, Benzodiazepines, Opiates, Recreational Drugs.

Guard Cartridges for HPLC and UHPLC Columns



- Various dimensions
- Legacy phases, Chiral phases, and UHPLC phases

Quick Disconnected Columns

- Reusable column hardware and orpheus sorbents
- Key applications: Desalting and online Solid Phase Extraction

EZY Flash Columns

- Lure-lock connections compatible with most Flash Chromatography systems
- Leak free up to 150 psi
- Proprietary dry packing procedure
- Pre-packed with Orochem manufactured stationary phases
- Phases: Normal Phases (Si, Al, Al-acid, Al-basic), Reversed Phases (C18, C8), and Ion-exchange Phases
- 40-60 microns irregular or spherical 50 microns

Protein Research Products:

Coral Desalting Column and Plate

- High protein recovery/high small molecule retention

Reva detergent removal products

- Low non-specific protein/peptide binding resin maximizes protein/peptide recovery

Affinity Purification Products

1. EZ Link Resin

- Efficient immobilization of antibodies, peptides, proteins and other biomolecules to create affinity supports

2. EZ Pure Protein A Resin

- High capacity (>34 mg human IgG/ml) resin, leach resistant, multiple uses without decline in yield

3. EZ Pure Protein G Resin

- High capacity (>30mg human IgG/ml) resin ideal for mouse IgG1 and human IgG3 isotypes

4. EZ Pure Streptavidin Resin

- Streptavidin is immobilized by charge free, leach resistant covalent bonds, low non-specific binding
- Ideal for purification and isolation of biotinylated bio molecules

5. EZ Pure Ni-NTA Resin

- High capacity (60mg His-tag protein/ml) resin for purifying recombinant protein carrying a His-tag

6. EZ Pure Cobalt Resin

- High performance affinity resin for obtaining high-purity his-tagged fusion proteins from cell lysates under native and denaturing conditions

7. EZ Pure Glutathione Resin

- High capacity (40 mg GST protein/ml) resin to purify GST fusion proteins from bacterial lysates

High throughput lab process automation:

Positive Pressure Processor

- 48, 96, and 144 cartridge formats
- One and two plate formats

Vacuum Manifold

- 12- and 24-position cartridge formats
- Plate format