



Analytical Services

Jordi Labs was founded in 1980 to provide the highest quality analytical services and polymer based HPLC columns and packing media in the industry. Our customers come from a diverse background, including the polymer, pharmaceutical and specialty chemical industries. It is our goal to help our customers overcome their analytical challenges by providing excellent products and personal assistance from our highly trained staff. Our reputation has been built on the principal of outstanding customer service, quick turnaround times and expert analysis for every job. Our capabilities and available techniques service a much larger customer base than just the polymer industry. We strive to work closely with all of our clients to solve any and all analytical problems.

Products

Jordi offers a full line of products to support the chromatography industry such as Gel Permeation Chromatography (GPC) columns, Solid Phase Extraction (SPE) products and Bulk Packing Material. We have developed and consistently provide the highest quality divinylbenzene polymer packing materials in the industry. The Jordi Columns, SPE products and Bulk Packing materials are made from highly crosslinked polymeric resins resulting in long column life, extreme durability in nearly any solvent, pH stability from 0-14, and high temperature tolerance to 150°C. Jordi also offers the widest selection of bonded phases and the most favorable pricing.

Problems We Solve

- Polymer Analysis
- Contract Analysis
- Preparative HPLC
- Product Formulation
- Unknown Identification
- Polymer Filler & Additives Quantitation
- HPLC Method Development
- Product Deformulation
- HPLC Training and Installation Services
- Expert Witnessing
- Good-Bad Comparisons
- Quantitative Analysis

Techniques We Offer

- Particle Analysis
- Light Microscopy
- Supplemental Testing
- Mass Spectroscopy (MS)
- Gas Chromatography (GC)
- Fourier Transform Infrared Spectroscopy (FTIR)
- Nuclear Magnetic Resonance (NMR)
- Chemical Methods (Titrimetry, Extractions, Etc.)
- Gel Permeation Chromatography (GPC)
- Thermal Methods (DSC, TGA, TMA)
- High Performance Liquid Chromatography (HPLC)
- Elemental Analysis (PIXE, INAA)

Products

Columns

- Gel Permeation Chromatography (GPC)
- Organic Solvent columns
- Aqueous Solvent Columns
- Reverse Phase (RP) & Normal Phase (NP)
- Ion Exchange
- Guard Columns

Solid Phase Extraction (SPE)

- Neutral Hydrophobic/Hydrophilic Balance
- Cation Exchange
- Anion Exchange

Bulk Media

Polymer Solubility Index for GPC Solvents

Polymer

Solvents

Abbreviations

Acenaphthylene/MMA	THF, DMF
Acenaphthylene/styrene/acrylic	THF, DMF
Acetals	HFIP, DMAC
Acetylene (LMW)	TCB, Toluene
Alginate A	1M NaOH in Water
Acrylamide	Water
Acrylamide/Acrylic Acid	Water/NaOAc, Water/KH ₂ PO ₄ , DMSO
Acrylics	THF, DMF, DMSO, Toluene
Acrylics(salts)	Water
Acrylic Acids	Water/NH ₄ AC+10% Methanol, 1M NaOH in Water
Acrylic/Butadiene/Styrene (ABS)	THF,DMF
Acrylonitrile	DMF
Acrylonitrile/Butadiene rubber (nitrile rubber)	DMF, Toluene, TCB
Acrylonitrile/Butadiene/Styrene	THF, DMF, DMSO
Acrylonitrile/styrene	THF
Acrylonitrile/vinyl chloride	DMSO
Alkyd Resins	THF, Toluene, Chloroform, DMAC
Alkyl Resins	THF, Chloroform
Alkyene Glycols	THF, Toluene, TBC, ODCB, Chloroform
Alkyene Oxide	Chloroform
Amides	DMF, HFIP
Amide/Imide	DMF, DMSO, DMAC
Amidoamine	HFIP
Amines	n-Butylamine
Amylose Acetate	THF

THF=Tetrahydrofuran
DMF=Dimethylformamide
DMSO=Dimethylsulfoxide
HFIP=1,1,1,3,3,3-Hexafluoroisopropanol
TCB=1,2,3-Trichlorobenzene
ODCB=Ortho Dichlorobenzen
DMAC=Dimethylacetamide
NMP=N-Methyl Pyrrolidone
TFE=Trifluoroethanol



Polymer

Solvents

Amylose Butyrate	THF
Amylose Propionate	THF
Aromatic Anhydride Complex	Acetonitrile
Aromatic Polyamide (KEVLAR)	None
Asphalts	THF, DMF, Toluene, TCB, Chloroform, m-Cresol
Asphaltenes	THF, TCB
Butene-1	Toluene, TCB, ODCB
Butyl Rubber (isobutylene/isoprene)	Toluene, TCB, ODCB
Butyl Methacrylate	DMF
BUNA-N (cured)	Toluene-limited
Butylene Terephthalate (PBT)	HFIP, m-Cresol
Butadiene (cis)	THF, Toluene, TBC, ODCB
Butadiene/Acrylic	DMF, Toluene
Butadiene/Acrylic Acid/Acrylonitrile	DMF, Toluene
Butyl Isocyanate	THF
Caprolactam	HFIP, m-Cresol
Carrageenan	0.5 to 1M NaOH in Water
Carbonates	THF, TCB, ODCB
Carboxylated Polybutadiene	THF
Carboxylated SBR	DMF
Carboxy Methyl Cellulose	Water, DMF, 0.1 to 1.0M NaOH in Water
Carboxy Methyl Hydroxyethyl Cellulose	Water, DMF, DMSO
Carbowaxes	DMF, TCB, ODCB, Chloroform
Cellulose (Quarternary Amine modified)	Water, DMSO
Cellulose Acetate	THF, DMF, DMSO, Acetone/Water
Cellulose Esters (general)	THF
Cellulose Nitrate	THF, DMF
Cellulose Sulfate	8:2 0.1M NaOH/DMSO
Cellulose Trinitrate	THF
Chitosan	2% Acetic Acid in Water + 0.1M NaCl in Water
Chlorinated Polyethylene (Chloroprene) (Neoprene)	Toluene, TCB



Polymer

Solvents

Chlorinated Rubber	Toluene, TCB
Coal Liquids	TCB
Coal Tar Pitches	Toluene, TCB
Cooking Oil(Soybean)	THF
Corn Syrup	Water, 8:2 Water /DMSO
Dextrans	Water, DMSO, 1N NaOH in Water
Dialkyl Phthalate	Toluene, TCB, ODCB, Chloroform
Dimethylsiloxanes	Toluene, TCB, ODCB, Chloroform
Dodecyl Acrylate	THF
Dioxalane	THF
Drying Oils	THF, DMF, Toluene, TCB, ODCB, Chloroform
Epichlorohydran	TCB
Epoxy Resins	THF, Toluene, Chloroform
Esters	THF, DMF, Toluene, TCB, HFIP, m-Cresol
Ethers	THF, DMF, Toluene, HFIP
Ether Ether Ketone (PEEK)	3:1 Chloroform/Dichloroacetic Acid
Ether Sulfone	DMF, NMP
Ethyl Acrylates	DMF, Toluene, ODCB, HFIP, m-Cresol
Ethylene	TCB, ODCB
Ethylene/Acrylic Acid (Na+ Form)	TCB
Ethylene/Acrylic Acid (Zn+ Form)	Acidify with Glacial Acetic Acid, then TCB
Ethylene Glycol	Water, THF, DMF, DMAC
Ethyleneimine	95:5 Water/Acetic Acid
Ethylene/n-hexane	TCB
Ethylene/Maleic Anhydride	DMSO
Ethylene/Methyl Acrylate	TCB
Ethylene Oxide	Ethylene Oxide
Ethylene Oxide/Butylene Terephthalate	HFIP
Ethylene/Propylene and EPR	TCB, ODCB
Ethylene/Propylene/Diamine (EPDM Rubber)	TCB
Ethylene Terephthalate (PET)	HFIP, m-Cresol



Polymer

Solvents

Ethylene/ Vinyl Acetate (EVA)	TCB
Ethylvinyl Alcohol/Maleic Anhydride	DMSO
Fatty Acids	THF, TCB, ODCB, Chloroform
Fluoroelastomer	DMAC
Furfuryl Alcohol	THF, TCB, ODCB, Chloroform
Gelatins	Water, DMSO, 80:20 Water/DMSO+10% Butylamine
Gutta Percha (trans-1,4-isoprene)	Toluene, TCB, Chloroform
Glycerides	THF, TCB, ODCB
Glycol/Glycerine Polyesters	DMF, DMF + 0.005% LiBr
Glycols	Water, THF, DMF, Toluene, TCB, ODCB
Glyconates	HFIP
Glycolic Acid	HFIP
Gum Arabic	8:2 0.1M NaOH in Water/DMSO
Hot Melt Adhesives	TCB
Hyaluronic Acid	0.1N HN03, 1M NaOH/20% DMSO
Hydroxyethyl Cellulose	DMSO
Hydroxyethyl Methacrylate (HEMA)	Water, THF, DMF, Methanol
Hydroxyethyl Starch	DMSO
Hydroxypropyl Methyl Cellulose	DMSO
Isoprene (cis-1,4) (Natural Rubber)	THF
Isoprene (Trans-1,4)	Toluene, TCB
Isobornyl Methacrylate/Hydroxyethyl Methacrylate	THF
Isobutylene (Isobutene)	THF, Toluene, TCB
Isocyanates	THF, DMF, Toluene, Chloroform
Imides	DMF, DMAC
Imic Acid	NMP
Isopropylidene-1,4-phenylene	THF
KELVAR (Aromatic Polyamide)	None
KYNAR (Vinylidene Fluoride)	DMF, DMSO, DMAC, Cyclohexanone
KRATON Rubber	THF, TCB
(Styrene/Butadiene Elastomer)	



Polymer

Solvents

Leucine/Methyl Glutamate	HFIP
Lignins	Water, THF, DMSO, 1M NaOH in Water
Lignin Sulfonates	Water, DMSO
Lipids	THF, Dichloromethane
Melamine Resin	THF, TCB, HFIP, m-Cresol, TFE
Methacrylates	THF, DMF, TCB
Methacrylic Acid	8:2 0.1M NaOH in Water/DMSO
Methyl Cellulose	Water, DMSO
Methyl Methacrylate	THF, DMF, Toluene, HFIP, m-Cresol, DMAC
Methyl Methacrylate/Styrene	THF, Toluene, ODCB, Chloroform
Methyl Pentane	TCB
Methyl Vinyl Ether/Maleic Anhydride	0.1 to 1.0M NaOH in Water
Methyl Siloxane	TCB
Napthalene Sulfonate/ Formaldehyde Condensate	Water, DMSO
Natural Rubber (Cis-1,4 Isoprene)	THF
Neoprene	Toluene, TCB
NORYL (Styrene/Phenylene Oxide)	TCB
Novolak (Phenol/formaldehyde resin)	THF with 2% Methanol, 75:25 Methanol/0.1M NaOH
Nylon 4,6,6/6,10,12, etc.	HFIP, m-Cresol
Octadecyl Methacrylate	DMF, DMSO
Octadecyl Vinyl Ether	THF
Oxycarbonyloxy-1,4-phenylene	THF
Oxyethylene (20) Sorbitan mono-oleate	DMSO
Oxymaleoyloxyhexamethylene	THF
Oxymethylene	HFIP, DMAC
Oxypropylene	THF
Oxysuccinyloxyhexamethylene	THF
Paper Pulp	Water, DMSO (HOT)
Phenol	DMF
Phenol/Formaldehyde Resins	THF, DMF, TCB, 1.0M NaOH/Methanol



Polymer

Solvents

Phenolics (NOVOLAC)	THF, 95:5 THF/Methanol, Chloroform
Phenylene Oxide	TCB
Phenylene Sulfide	1-Chloro Naphthalene @ 235 oC
Photo Resists	THF, DMF, m-Cresol
Pitch	TCB
Polyols	THF, DMF
Propylene	TCB, ODCB
Propylene/n-butene	TCB, ODCB
Propylene Oxide	TCB, ODCB, DMAC
Pullulan	8:2 0.1M NaOH/DMSO
Rubbers(Chlorinated) (Neoprene)	Toluene, TCB
Rubbers (Uncured)	Toluene, TCB, ODCB
Saccharides	Water
Silicones	Toluene, TCB, ODCB, Chloroform, Dichloromethane
Siloxanes	Toluene, Chloroform
Starch	Water, DMSO
Styrene	THF, DMF, Toluene, TCB, ODCB, Chloroform
Styrene/Acrylonitrile	DMF
Styrene/Butadiene Rubber (SBR) (KRATON)	THF, Toluene, TCB, ODCB
Styrene/Butadiene Rubber (SBR) carboxylated	DMF
Styrene/Isoprene	THF, Toluene, TCB
Styrene/Maleic Anhydride	THF
Styrene/Monoethyl Maleate	THF
Styrene/Phenylene Oxide	TCB
Styrene Sulfonate	Water, DMSO
Succinamide	DMF
Sulfonates	THF
Sulfonated Styrene/Maleic Anhydride	1M NaOH
Sulfone	THF, TCB
Sulfur/Dicyclopentadiene (SULPHLEX)	TCB



Polymer

Solvents

Tetrafluoroethylene (TEFLON)	None
Trifluorostyrene	THF
Urea/Formaldehyde Resins	DMF, HFIP, m-Cresol
Urethane	THF, DMF, Toluene, HFIP, DMSO, Chloroform
Urethane (RIM)	m-Cresol extracts only!
Vinyl Acetate	THF, DMF, ODCB
Vinyl Acetate/Ethylene	DMF
Vinyl Acetate/Ethylene/Acrylate	DMF
Vinyl Acetate Phthalate	THF
Vinyl Alcohol	Water, THF, DMF, DMSO
Vinyl Alcohol/Vinyl Acetate	DMF, DMSO
Vinyl Bromide	THF
Vinyl Butyral	THF, DMF
Vinyl Carbazol	THF
Vinyl Chloride (PVC)	THF, Toluene
Vinyl Chloride/Vinyl Acetate/Maleic Acid	DMF
Vinyl Esters	THF, DMF
Vinyl Ferrocene	THF
Vinyl Fluoride	DMF
Vinyl Formal	THF
Vinylidene	DMAC
Vinylidene Fluoride (KYNAR)	DMF, DMSO, DMAC, NMP
Vinylidene Fluoride/Hexafluoropropylene (VITON)	THF, Toluene
Vinyl Methyl Ethers	THF, DMF
Vinyl Pyridine	97:3 DMF/n-Butylamine
Vinyl Pyrrolidone	Water, DMF, DMSO, NMP
Vinyl Pyrrolidone/Vinyl Acetate	DMF, DMSO
Waxes (Parrafin)	THF, DMF, Toluene, TCB, ODCB, Chloroform
Waxes (Microcrystalline)	TCB, ODCB