

# Supercritical Fluid Chromatography



Regis Technologies has added Supercritical Fluid Chromatography (SFC) to its GMP-approved chiral separations services, offering pharmaceutical and other industries an expanded separation service that uses a superior technique with cost and time efficiencies.

## Superior Method

Supercritical Fluid Chromatography (SFC) is now gaining increased acceptance the method-of-choice for the analysis and purification chiral separations. Although a well-established method for over 20 years, renewed interest emerged with the recent introduction of high throughput SFC systems required for pharmaceutical applications. With the method's ability to accommodate flexible solvent conditions, SFC provides a superior chiral purification method compared to traditional HPLC.

## Cost Efficient

Several factors combine to reduce the cost of SFC separations without sacrificing purity, including:

- Faster run times
- Flexible solvent conditions
- Lower solvent use as SFC typically utilizes carbon dioxide as the mobile phase
- Reduced waste for disposal
- Less ancillary equipment required

## Complete SFC Service

Regis Technologies now offers RegisSEP™ SFC Separations Services. This valuable addition to our chromatographic separations group delivers benefits that no other separation method can provide. Turn to our expert staff to help solve your separations problems. Experience excellence in project management all you separations projects. Expand your capabilities overnight with our GMP compliant service that can tackle projects for the scale you need—from milligram- to kilo-scale.





## Leverage the Added Value from Regis Technologies

### • Reliability and Experience

Regis Technologies has been serving the pharmaceutical, biotechnology, and related industries for over 50 years. As a leader in separations services, Regis has been involved in chiral and achiral separations for over 25 years and supplies specialty chiral columns and other chromatography products. The company's decades of experience are unmatched in the field.

### • GMP Compliant Organization

Regis Technology has been a fully compliant GMP organization since 1993. We manufacture APIs under GMP and are regularly inspected by the FDA. In this manner, we become an FDA approved extension of your manufacturing facility.

### • Production Capabilities

Regis' Production department works hand-in-hand with the separations group to provide GMP productions support for the many separation projects included in your synthesis. Regis' Production department is headed by a 23-year industry veteran. Production equipment ranges from small glassware to kilogram suites to reactors ranging from 25 to 500 gallons. Regis production also utilizes large glass gravity chromatography columns with a total capacity of up to 175 kg of silica.

### • Bulk Phases

Cut lead time and expense. As a manufacturer of Chiral Stationary Phases, we inventory our bulk material so it is readily available for your separation projects.

### • High-Throughput SFC Systems

Regis Technologies uses Thar SFC Method Station with Regis Technologies columns. Regis chose the Thar system for its quality, and because of their ease of validation.

### • Supportive Departmental Services

Your project will benefit from Regis' extensive organization including QA, Analytical Method Development, QC, Stability, and Project Management. These departments all contribute according to the needs of the project and of the customer.





# RegisSEP™ GMP SFC Separation Services

## Screening & Assessment Process

- ▶ Execute a CDA (1 day)
- ▶ Perform screening of the compound
- ▶ Free screening using Regis phases

*Fee for screening using other phases  
Report of findings is transferred to  
the customer*

- ▶ A critical assessment of the data is performed by Regis and presented to the customer to determine a plan of action for the compound.

This process enables us to provide you with accurate quotes and yields, and shows the basic steps for how we progress from small-scale analytical to kilogram preparative separations.

## • Fast Project Execution

Our experience and proven processes translate into efficient project executions, thereby reducing your time to market.

## • Screening & Assessment Process

Regis' formal screening and critical assessment process is quick and easy, and ensures agreement for best results. For the initial screen, our experienced chromatographers use the wealth of their experience to select the best column performers of more than 50 available for your separations. This initial phase is most critical, enabling the project to move forward.

Regis continues to offer confidential free chiral screening services using its proprietary phases on both LC and SFC units—your first and only stop in determining which stationary phase meets your compound's needs.

## • Scaling Up Process

Our GMP compliant service can tackle projects for the scale you need—from milligram- to kilo-scale. Regis Technologies formal process enables us to provide you with accurate quotes and yields, and shows the basic steps for how we progress from small-scale analytical to kilogram preparative separations.

Small-Scale Separations	10-100g Separations	Kilogram Separations
Perform a solubility and loading study	Separations available on a GMP or non-GMP basis	Separations available on a GMP or non-GMP basis
Isolate desired enantiomers	Confirm purity by HPLC	Calculate machine time and raw materials
Confirm purity by HPLC	Provide a detailed separations report	Pack or procure the required columns
Provide a detailed separations report	Estimate costs for kilogram scale	Confirm purity by HPLC
Estimate costs for 10-100g scale		Provide a detailed separations report

For additional information on RegisSEP™, please e-mail [sfc@registech.com](mailto:sfc@registech.com). Or call Mr. Francis Mannerino, Director of Chromatography, 847.583.7662 or Mr. Sean Bradley, Director of Business Development, 847.583.7631. We look forward to being of service to your organization.