



## ACCELERATE YOUR DRUG DISCOVERY AND DEVELOPMENT WITH INTEGRATED CHEMISTRY SERVICES

Chemical synthesis challenges, manufacturing scale-up complexities, and analytical bottlenecks can delay even the most promising drug candidates. When you need both innovative chemistry solutions and reliable manufacturing capabilities, you need a scientific partner who transforms these obstacles into strategic advantages. Element's experts deliver integrated synthetic chemistry and analytical services that provide the materials and data needed to advance your programs while flexibly scaling with your development requirements. Partner with our Santa Rosa team to focus on your innovative therapies while we provide the specialized chemistry services that help bring your drug candidates from discovery to clinical trials faster.

### TRANSFORM CHEMISTRY CHALLENGES INTO DEVELOPMENT ADVANTAGES

#### PARTNER WITH ELEMENT SANTA ROSA TO:

- Overcome complex chemical synthesis challenges that slow drug discovery and development
- Access multistep custom synthesis capabilities that accelerate lead optimization
- Transform manufacturing scale-up concerns into reliable clinical supply
- Maintain consistent product quality with integrated analytical support
- Address regulatory expectations with precise, well-documented manufacturing processes

### INTEGRATED CHEMISTRY SERVICES FROM DISCOVERY TO PHASE II CLINICAL TRIALS

Advance your small molecule programs with specialized chemistry services that support your most challenging compounds. Our integrated capabilities cover critical aspects across the drug development pathway:

- Custom Synthetic Chemistry
- Analytical Development & Testing
- cGMP Manufacturing
- Process Development & Optimization



#### DISCOVERY

- Create synthetic strategies for novel compounds
- Synthesize analogs for lead optimization
- Develop structure-activity relationships

#### PRECLINICAL

- Optimize synthetic routes
- Scale from mg to gram quantities
- Establish analytical methods

#### SCALE-UP

- Validate manufacturing processes
- Generate stability and release data
- Optimize process parameters

#### CLINICAL

- Produce GMP clinical trial materials up to Phase II
- Ensure batch-to-batch consistency
- Deliver documentation packages



## COMPREHENSIVE CHEMISTRY SOLUTIONS

Our Santa Rosa laboratory is FDA-registered and inspected, ISO 17025 accredited, and DEA licensed, providing specialized testing services:

### SYNTHESIS

- **Synthesis of New Analogs from Hit-to-Lead** - Accelerate lead optimization
- **Multi-step Custom Synthesis Provided by an Experienced Team** - Navigate complex chemistry challenges
- **Chiral Compounds Synthesis** - Access stereoselective synthesis expertise
- **Peptide-drug or Polymer-drug Analogue and Conjugate Synthesis** - Develop specialized delivery systems

### ANALYTICAL CHEMISTRY

- **HPLC, GC, GC-MS, FTIR, UV/Vis, NMR, LC-MS** - Comprehensive compound characterization
- **Analytical Development** - Custom methods for unique molecules
- **Method Development and Validation** - Robust techniques for reliable results
- **Stability and Release Testing** - Critical product quality assessment
- **Reference Standard Generation and/or Qualification** - Essential materials for product testing
- **Impurities Isolation, Synthesis, ID and/or Characterization** - Thorough impurity profiling
- **Custom HPLC Purification** - Specialized separation capabilities

### MANUFACTURING

- **cGMP Manufacturing kg Quantities up to Phase II**
  - Small scale APIs for early-stage clinical studies
  - Medical device components (combination products)
- **Process Development, Validation, Optimization** - Efficient scale-up solutions
- **Clinical Supply Manufacturing with QA Release** - Reliable materials for clinical trials
- **FDA-registered Facility** - Compliant manufacturing operations
- **DEA Bulk Manufacturing Licensed** - Controlled substance capabilities

## READY TO ACCELERATE YOUR SMALL MOLECULE PROGRAMS?

Discover how Element Santa Rosa's integrated chemistry services can help advance your drug discovery and development programs. Our experienced team of chemists is ready to discuss your specific program needs and develop a customized solution.

Click or scan the QR code to learn more.

