



## Preclinical Pharmaceutical Sciences: Bioanalytical Services

*Accurate, fully FDA-compliant analytical data delivered on time*

### Full-Service Bioanalytical Laboratory

RTI-HS provides bioanalytical services to support preclinical and clinical studies. Our experienced scientists offer a full range of LC/MS/MS and GC/MS bioanalytical services from method development, method validation, and GLP sample analysis to identifying metabolites in biological matrices and impurities in drug products.

### Capabilities

- LC/MS/MS and GC/MS methods development and validation
- Metabolite identification
- Impurity characterization
- Biological sample analysis (blood, urine, feces, aqueous humor, tissues, brain, plasma, serum) to support all phases of drug development
- DMPK and toxicology support
- Targeted biomarker platform (~180 analytes)

### Instrumentation

- LC/MS/MS systems with ESI, APCI, APPI, and nanospray ion sources
  - Sciex API 5000, 4000, 3000, and 4000 QTRAP LC/MS/MS
  - Agilent 6410 LC/MS/MS
  - Waters AcquityTQD LC/MS/MS
  - Thermo Electron LTQ, LTQ ETD, and LCQ Deca LC/MSn
  - Hybrid and high-resolution MS
- GC and GC/MS
- UPLC and HPLC with PDA, UV, ELSD, RI, fluorescence, and electrochemical detection
- ICP-MS
- CE with PDA

### Case Studies

1. The Bioanalytical Services group acted as the method development supplier for several competitors who didn't have time or expertise to perform these studies.
2. The Bioanalytical Services group determined soy isoflavones in urine; partnered with Otsuka and presented findings at AAPS 2009.
3. The Bioanalytical Services group detected and quantitated low levels of analytes from studies of the epidermal and dermal penetration of topically applied test articles.

### Contact

RTI Health Solutions  
Research Triangle Park, NC, USA  
+1.800.262.3011

Ann Arbor, MI, USA  
+1.734.213.5372

Barcelona, Spain  
+34.93.241.7766

Manchester, UK  
+44(0)161.232.3400

Waltham, MA, USA  
+1.781.434.1700

rthealthsolutions@rti.org  
www.rtihs.org

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*RTI Health Solutions  
Key Thought Leader*

*Qiao Zhan, PhD*

*Sr. Manager  
Bioanalytical Services  
qzhan@rti.org*

### **Working Closely with Our Clients**

RTI-HS technical, research, and development services meet the highest standards of professionalism. We take pride in our scientific stature and our reputation for excellence and meeting the unique requirements of each project. We work closely with our clients to understand their needs and develop a detailed plan that defines the project scope. We have a history of completing projects on time and within budget.

RTI-HS extends its excellence in research and technical services to its business systems and processes. We make it easy for you to partner with us. Our processes and standard operating procedures are developed to protect our clients' intellectual property. We have the contractual, legal, and business structures to efficiently implement your projects, no matter their size.

### **Let RTI-HS Help You**

To learn more about our capabilities, please visit us online at [www.rtihs.org](http://www.rtihs.org), or contact Jennifer Hart ([jhart@rti.org](mailto:jhart@rti.org)). You can also send us an e-mail at [rtihealthsolutions@rti.org](mailto:rtihealthsolutions@rti.org), or call one of our international offices listed on the front.