



LABORATORIES
We Get Results

30 YEARS
1984-2014

R.D. Laboratories, established in 1984, is an independent contract testing laboratory that specializes in pharmaceutical analysis. We provide prompt and accurate testing with an emphasis on personalized customer service. With a forward-focused vision, we dedicate ourselves daily to the principles of accuracy, promptness and competitiveness.

R.D. Laboratories invests extensively in technology that reflects the latest scientific advances in testing methods and instrumentation. Our modern, cGMP compliant facility is staffed by a knowledgeable, highly trained team of professionals who focus on providing our trademark dependability, accuracy and turnaround. By rigorously implementing our proven internal protocols, our easily accessible laboratory staff and management team ensure that we deliver reliable communication, professional expertise and attention to detail unrivaled in the industry.

We welcome you to contact R.D. Laboratories to learn more about how we get results for our customers.

ANALYTICAL SERVICES

R.D. Laboratories offers an extensive array of analytical services to customers with diverse requirements from around the world. Our specialty for decades, we approach these services with an unrivaled tradition of quality and accuracy.

While it would be impossible to list all of our services in the field of analytical pharmaceutical chemistry, this section highlights the more common tests and procedures we perform for our customers.



INSTRUMENTAL ANALYSIS

R.D. Laboratories maintains a large inventory of modern analytical instrumentation to remain current with all compendia requirements. We evaluate a broad range of characteristics using advanced instrumental analyses, from measuring low levels of impurities in raw materials to determining the strength and purity of finished dosage forms.

Liquid Chromatography

Gas Chromatography

- Residual Solvents

Elemental Analysis

- AA, GFAA and Hydride Generator
- ICP-MS

Dissolution

Water Determination

- Amperometric
- Coulometric

Additional Tests

- Disintegration
- Tablet Hardness
- Closed-cup Flash Point
- Tablet Friabilator
- Refractive Index
- Nephelometer
- Fluorometric Spectrophotometry
- Mercury Analysis
- Microwave Digestion
- Optical/Specific Rotation
- UV-Vis
- FTIR
- Brookfield Viscosity
- Osmolality
- Impurities Testing

WET CHEMICAL ANALYSIS

In addition to modern analytical instrumentation, we offer many types of well worn wet chemical analyses that the pharmaceutical industry still widely performs and relies upon. Often, modern instrumentation cannot ascertain results that many specific wet chemical tests provide. R.D. Laboratories is firmly committed to maintaining the equipment, knowledge and experienced staff to provide wet chemical analysis for our customers.

Limit Test

pH

Loss on Drying

Thin Layer Chromatography

Identification

Residue on Ignition

Viscosity

Additional Tests

- Distillations
- Titrations
- Arsenic
- Heavy Metals
- Bulk Density
- Melting Range
- Color Testing
- Sieve Analysis
- Sulfur Dioxide
- Carbonate Testing
- Conductivity
- Selenium
- Container Performance Testing



COMPENDIA/ALTERNATIVE METHODOLOGIES

R.D. Laboratories performs tests from a variety of compendia. These include USP/NF, EP, JP, BP, FCC, ACS, AOAC, AOCS and ASTM. We add new tests to our catalog daily and routinely provide customized raw material and finished product testing to accommodate our clients' requirements.

It is not uncommon for either our customers or their vendors to require alternative methods to compendial procedures. Not only does R.D. Laboratories have the capabilities to perform these alternative methods, we also provide method development and validation services. We are a partner with our customers in the process, and are available to help them decide what is appropriate to best meet their objectives.

SPECIALIZED TESTING

We take great pride in our ability to collaborate with our customers. Part of this collaboration is the ability to evaluate and respond to special or unusual requests. Our well-equipped laboratory and depth of experience allow us to perform unique tests that few contract labs are willing or able to perform. Contact us to inquire about your special project.

RAW MATERIAL & FINISHED PRODUCT TESTING

Our team of well-trained and highly qualified professionals performs testing for all phases of product development from conception to market. Whether our customers need raw material or finished product testing, wet chemistry or instrumental analysis, release testing or stability testing, R.D. Laboratories has the necessary experience and knowledge to deliver timely and accurate results.

PRODUCT SUPPORT SERVICES

Our product support services define who we are at R.D. Laboratories. Our mission is to support manufacturers, packagers, raw material suppliers and formulators with timely and accurate test results in nearly every phase of development, from conception to the release of a safe and effective final product.



A photograph of several glass Erlenmeyer flasks on a laboratory bench. One flask in the foreground contains a clear liquid and has a red handwritten mark. Another flask behind it contains a yellowish liquid. The background is slightly blurred, showing more laboratory equipment.

STABILITY SERVICES

R.D. Laboratories offers a full range of stability service capabilities including ICH, environmental and photostability storage and testing. We meticulously maintain our advanced walk-in and reach-in storage chambers to ensure optimum precision and security for our customers' stability studies. Our knowledgeable and accessible staff has extensive experience helping our customers ensure product quality and regulatory compliance through stability storage and testing techniques.

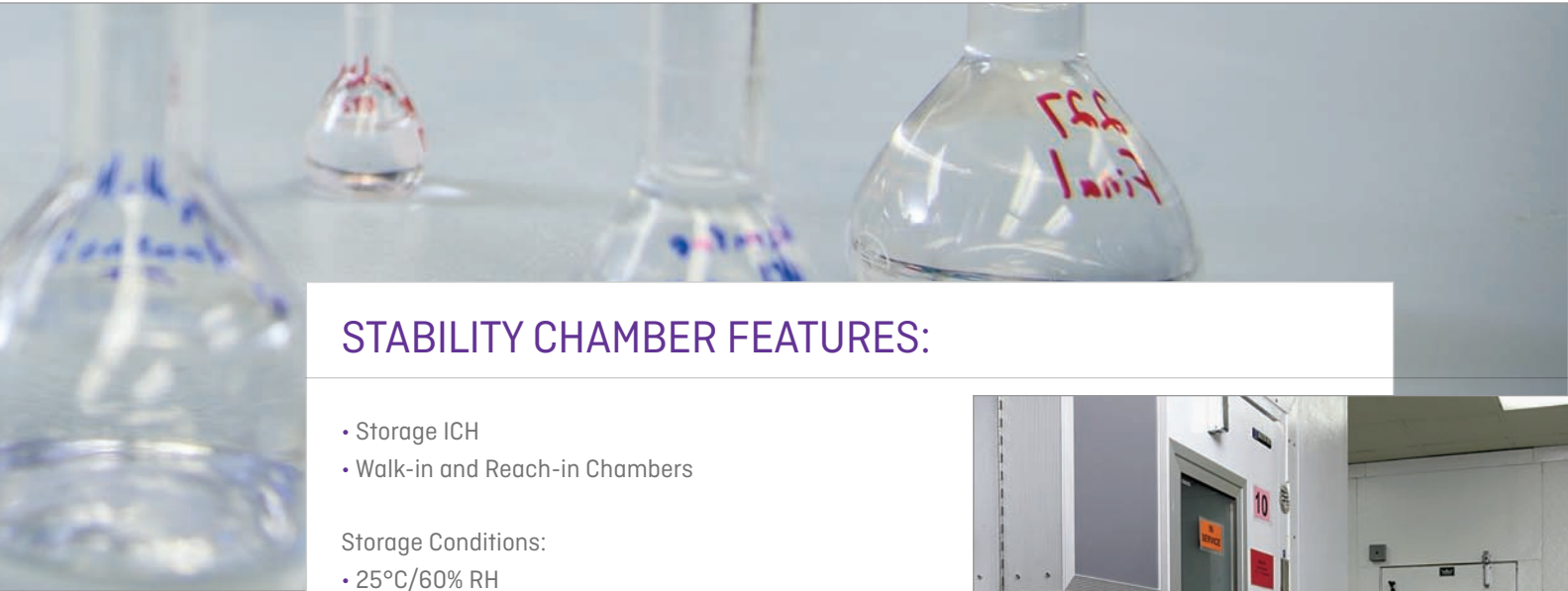
STABILITY STORAGE

R.D. Laboratories' stability chambers are equipped with an extensive array of fixed sensors for continuous mapping to effectively capture electronic data. MKT is calculated electronically by either an individual sensor or by multiple sensors as a weighted average.

Our customers rest easy with the knowledge that our alarm notification system keeps their stability studies safe and secure. With this system, all appropriate supervisory personnel receive direct notification immediately from our alarm monitoring services via e-mail if a chamber becomes out of tolerance.

Qualified engineering support personnel perform all regular maintenance and service on our stability storage chambers. Maintenance and service records are available for inspection during audits. All spare and replacement parts are inventoried on site at R.D. Laboratories to reduce the risk of extended downtime in the event of a chamber malfunction.





STABILITY CHAMBER FEATURES:

- Storage ICH
- Walk-in and Reach-in Chambers

Storage Conditions:

- 25°C/60% RH
- 30°C/65% RH
- 40°C/75% RH
- 5°C
- -20°C
- Freeze/Thaw
- Photostability

Specialty conditions may be arranged:

- 40°C/Ambient
- 25°C/Low Humidity
- 50°C



R.D. Laboratories offers storage-only services to customers who need them. All of our stability storage quotes are based on each individual customer's specifications. Please contact us for a quote.

PHOTOSTABILITY

In order to offer photostability services to our customers, R.D. Laboratories maintains a Caron 6540-1 photostability chamber with temperature control. This advanced device meets ICH, FDA, EMEA and Health Canada requirements for photostability (light study) testing according to ICH Q1B option II.



We meet the requirements of these various testing scenarios and ensure compliance with each protocol by constant monitoring of temperature and light exposure. We also test container integrity with our photostability chamber, as well as examine potential light degradation compounds in conjunction with method validation studies.



INDUSTRIES WE SERVE

R.D. Laboratories is an independent contract testing service provider primarily for the pharmaceutical industry. Our extensive experience with the particular needs of pharmaceutical chemical analysis makes us a preferred partner for manufacturers, packagers, raw material suppliers and formulators during nearly every stage of the drug development process.

We also serve several related industries that have pharmaceutical components, specifications, testing and compliance requirements that necessitate the use of a cGMP laboratory such as R.D. Laboratories. These include the chemical, cosmetic, health and beauty, food, and nutraceutical industries.





TURNAROUND SERVICE

R.D. Laboratories has a reputation, earned over decades of hard work and service, for delivering timely, accurate results that meet or exceed our customers' expectations.

Standard average turnaround time for routine testing is 7-10 business days.

We provide rush services when necessary. They must be pre-approved and may incur additional charges.

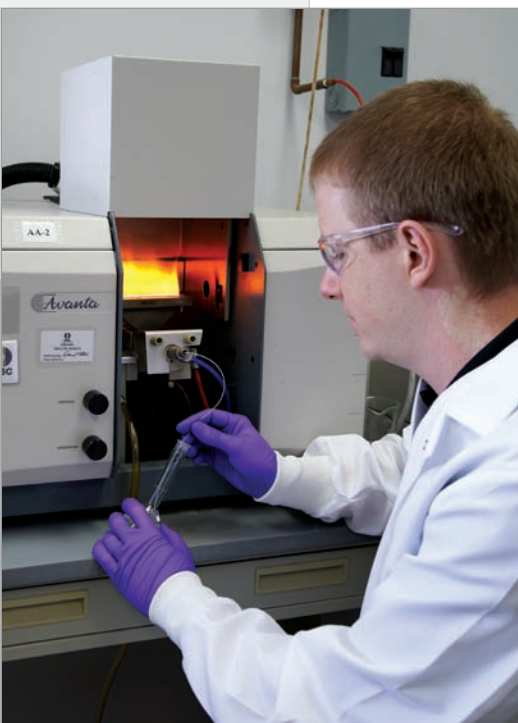
R.D. Laboratories promptly generates well organized Certificates of Analysis (COAs) for all testing we perform. COAs contain all results as well as pertinent sample information.



LICENSING / REGISTRATION / ACCREDITATION

R.D. Laboratories is an FDA-registered facility. We are also DEA-licensed and registered with the State of Missouri to handle schedule 1-5 controlled substances. Our management and dedicated staff work together to ensure that R.D. Laboratories meets or exceeds all technical and regulatory standards. We conduct all of our testing in accordance with current Good Manufacturing Practices (cGMP).

We are happy to provide statements of compliance upon request for FDA, DEA, OSHA, etc., for customers who require them.



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