



Clinical Chemistry Services

RTI International has a fully functional on-site clinical pathology laboratory, where RTI's highly trained and well-equipped clinical research scientists perform routine and specialized assays in support of government, commodity, and pharmaceutical clients. Our clinical and bioanalytical laboratories are GLP capable, practice quality control, and work closely with RTI's Quality Assurance Department.

Clinical Chemistry

- COBAS MIRA® Plus CG automated random access clinical chemistry analyzer
- Nova 5+ electrolyte analyzer
- Storage of daily and cumulative quality control reports and Levy-Jennings control charts
- Development services for measurement of analytes for which no automated method yet exists
- Specialty chemistries and manual assay methods
- Veterinary sample compatible

Endocrinology

- Validated radioimmunoassays for multiple species
- Reproductive hormones: total testosterone, free testosterone, dihydrotestosterone (DHT), androstenedione, estradiol, estrone, progesterone, growth hormone, prolactin, follicle stimulating hormone (FSH), luteinizing hormone
- Thyroid hormones: TSH, triiodothyronine (T3), thyroxine (T4)
- Adrenal hormones: cortisol, corticosterone, aldosterone, adrenocorticotrophic hormone (ACTH)

Urinalysis

- Ames Clinitek® 10 urine chemistry analyzer
- Physical description and chemical dipstick examination of urine
- Chemical tests: pH, specific gravity, glucose, blood, protein, ketones, bilirubin, urobilinogen, nitrites, and leukocytes
- Microscopic examination of urine sediment

Hematology and Coagulation

- Sero-Baker System 9010 automated 10-parameter cell counter (RBC count, hemoglobin concentration, hematocrit, WBC count, platelet count, mean platelet volume, red cell distribution width and red cell indices mean corpuscular volume, mean corpuscular hemoglobin, mean corpuscular hemoglobin concentration)
- Veterinary multispecies compatible
- WBC differential count, reticulocyte count, and erythrocyte morphologic evaluation by microscopic examination
- Methemoglobin assays by manual spectrophotometry
- Prothrombin time and activated partial thromboplastin time manual assays

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Clinical Chemistry Services *(continued)*



Working Closely with Our Clients

RTI's technical, research, and development services meet the highest standards of professional performance to satisfy the unique requirements of our clients. We work closely with our clients to identify their requirements and to clarify their expectations, including cost and time constraints.

RTI extends its excellence in research and technical services to its business systems and processes, making it easy for clients, subcontractors, and vendors to partner with us. We have the contractual, legal, and business structures to serve any client with projects of all sizes. RTI is a 501(c)(3) nonprofit corporation.

As our mission affirms, RTI is dedicated to improving the human condition. Through our objective, multidisciplinary research and by helping our clients develop new technologies, RTI is fast becoming the world's preferred resource for turning knowledge into practice.

For more information about RTI's clinical chemistry services, contact

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RTI International is an independent, nonprofit organization dedicated to conducting research and development that improves the human condition. With a staff of more than 2,500 people, RTI offers innovative research and technical solutions to governments and businesses worldwide in the areas of health and pharmaceuticals, advanced technology, surveys and statistics, education and training, economic and social development, and the environment.

For more information, visit **www.rti.org**.

RTI International is a trade name of Research Triangle Institute.