

Schedule Title: Schedule 873, Laboratory Testing and Analysis Services

Contract Number: GS-07F-6002R

Contract Period: 08/05/2005 through 08/04/2010

CONTRACTOR: Lovelace Biomedical & Environmental Research Institute
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CONTRACTOR'S ADMINISTRATION SOURCE: Ernesto J. Trujillo, Senior Project Accountant

BUSINESS SIZE: Large

CUSTOMER INFORMATION:

- 1a. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SIN's) 873 2 Chemical Testing and Analysis Services
- 1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH SIN: N/A
- 1c. Hourly rates and Labor Categories
2. MAXIMUM ORDER*: \$100,000 (LRRI will honor all purchases in excess of \$100,000.)
3. MINIMUM ORDER: \$100.00
4. GEOGRAPHIC COVERAGE: Domestic, 50 states, Washington, DC, Puerto Rico, US Territories and to a CONUS port or consolidation point for orders received from overseas activities.
5. POINT(S) OF PRODUCTION: N/A
6. DISCOUNT FROM LIST PRICES: 19% from the commercial pricelist.
7. QUANTITY DISCOUNT: None
8. PROMPT PAYMENT TERMS: Net 30
- 9a. GOVERNMENT PURCHASE CARDS ARE ACCEPTED UP TO THE MICRO-PURCHASE THRESHOLD
- 9b. GOVERNMENT PURCHASE CARDS ARE ACCEPTED ABOVE THE MICRO-PURCHASE THRESHOLD
10. FOREIGN ITEMS: None
11. TIME OF DELIVERY: to be negotiated with customer

- 11b. EXPEDITED DELIVERY: Not applicable
- 11c. OVERNIGHT AND 2-DAY DELIVERY: Not applicable.
- 11d. URGENT REQUIREMENT: Not applicable.
- 12. FOB POINT: Not applicable.
- 13. ORDERING ADDRESS: Same as Contractor
- 14. PAYMENT ADDRESS: Same as Contractor
- 15. WARRANTY PROVISION: Not applicable.
- 16. EXPORT PACKAGING CHARGES: N/A
- 17. TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ACCEPTANCE:
None
- 18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR: Not applicable.
- 19. TERMS AND CONDITIONS OF INSTALLATION: Not applicable.
- 20. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES: Not applicable.
- 21. LIST OF SERVICE AND DISTRIBUTION POINTS: Not applicable.
- 22. LIST OF PARTICIPATING DEALERS: Not applicable.
- 23. PREVENTATIVE MAINTENANCE: Not applicable.
- 24a. SPECIAL ATTRIBUTES SUCH AS ENVIRONMENTAL ATTRIBUTES (e.g. recycled content, energy efficiency, and/or reduced pollutants); Not applicable.
- 24b. SECTION 508 COMPLIANCE FOR EIT: Not applicable.
- 25. DATA UNIVERSAL NUMBER SYSTEM (DUNS) NUMBER: 04-591-1138
- 26. NOTIFICATION REGARDING REGISTRATION IN CENTRAL CONTRACTOR REGISTRATION (CCR) DATABASE: Registration Valid Until 1/20/07.

SCHEDULE OF SERVICES

- 1: Aerosol Technology

Provides aerosol science and inhalation exposure technology for research and development on aerosol generation and delivery techniques, sampling instrumentation and strategies, exposures of animals and humans, dosimetry of inhaled particles, the characterization and behavior of airborne particles, mitigation of fugitive particle releases, and personal protection strategies. Includes computer simulation, laboratory experiments, field studies, and handling a broad range of airborne materials, including powders, fibers, toxic chemicals, radionuclides, and bioaerosols.

- 2: Preclinical Studies

Provides preclinical evaluation of agents that may be delivered by inhalation. Includes research and development on aerosol generation, measurement, and delivery techniques, and evaluate the dosimetry of inhaled materials at the cellular, organ, and subject levels.

- 3: Clinical Research

Conducts clinical trials for rapid enrollment, clean data, and efficient operations. Excellence is assured through intensive staff training, an internal QA program, and strict compliance with our operating procedures and sponsor protocols. A strategic relationship exists with the Lovelace Health Systems (LHS), an integrated delivery system and the largest HMO in New Mexico. Through this relationship, we can access a 250,000 patient profile database well designed for studies in pharmacoconomics and health outcomes.

- 4: Managed Care Database

Maintains a Managed Care Database that contains comprehensive, longitudinal health care data from two managed care populations. It is a versatile and useful research tool for the conduct of pharmaco-economic, health services, health care cost, health care utilization, quality management, disease prevalence, disease management, and epidemiological studies. CPOR welcomes collaborative research proposals that take advantage of this rich data to improve understanding of important health access, utilization, outcomes, and cost issues.

1. Longitudinal Data: The Database currently contains 11 years of health care data from a 240,000-member managed care organization in New Mexico (Lovelace Health Systems/Lovelace Health Plan, a staff and network model HMO) and 7 years of data from a 100,000-member MCO in the mid-Atlantic region of the United States (network HMO).
2. Data Content: Patient enrollment; demographics; inpatient, outpatient, and pharmacy claims; and laboratory outcomes for general and microbiology lab tests.
3. Linked Files: Data is cross-linked in relational files, so complete episodes of care and longitudinal data for cases/controls, cohorts, and broader populations are available for study.

4. Clean Data: Extensive normalizing, grooming, and quality assurance routines are applied to ensure clean, accurate, and meaningful data.
 5. Liaison with the MCOs: Staff communicates regularly with clinicians, medical coders, and medical record specialists within the MCOs. This ensures data used for research is interpreted correctly within the context of these particular organizations, and provides valuable insight into organizational norms, physician practice patterns, coding practices, and data validity and reliability.
- 5: Medical Devices and Therapies

Provides the medical device, pharmaceutical, and biotechnology industries a wide range of experimental, clinical, and diagnostic capabilities for the development and preclinical evaluation of diagnostic instrumentation, therapeutic medical devices, pharmaceuticals, and other therapies. The Institute has extensive animal facilities and excellent clinical capabilities for rodents, dogs, nonhuman primates, and other large animal species. Our veterinary hospital and staff provide a range of clinical, diagnostic, surgical, and physiological evaluation services, and long experience with procedures ranging from routine physical examinations to lung transplantation. We offer special skills in the fields of cardiorespiratory physiology, hypobaric medicine, and thermoregulation. Their close association with our basic and applied research capabilities in cellular and molecular biology, analytical and biochemistry, dosimetry and pharmacokinetics, immunology, and pathology enhances these clinical services.

- 6: Human Research Capabilities

Conducts clinical trials at sites located in Albuquerque, NM, Phoenix, AZ, and Las Vegas, NV. Since 1987, over 450 clinical trials have been successfully completed. Our core capabilities reside in its highly trained and experienced staff consisting of physicians, certified clinical research coordinators, technicians, and administrators. Each of these individuals is dedicated exclusively to achieving your clinical trial objectives. Additionally, our internal physician research network exceeds 100 principal investigators and covers all medical specialties. We are well known in the clinical trials industry for rapid enrollment, clean data, and efficient operations. Excellence is assured through intensive staff training, an internal QA program, and strict compliance with Standard Operating Procedures and sponsor protocols. Unique to this area of our Institute is the strategic relationship with the Lovelace Health Systems (LHS), an integrated delivery system and the largest HMO in New Mexico. Through this relationship, we can access a 250,000 patient profile database well designed for studies in pharmacoeconomics and health outcomes.

- 7: Emphysema and Bronchitis Research

Provides expertise in pulmonary pathology, biochemistry, cell biology, animal models, and aerosol science that is important to emphysema research. We have several animal models of emphysema and bronchitis. Our capabilities and models provide opportunities for companies developing new pharmaceuticals, both in the development and preclinical trial phases.

- 8: Lung Immunology and Asthma

Provides internationally recognized expertise in pulmonary immunology, pathology, molecular biology, and aerosol science that is important in asthma research. We have several animal models of asthma that are used in ongoing independent and collaborative asthma research. Our capabilities in asthma research provide opportunities for companies developing new pharmaceuticals or improved drug delivery modalities, both in the development and preclinical trial phases.

- 9: Lung Cancer

Provides research and development capabilities for investigating the causes, mechanisms, and detection of lung cancer, genetic susceptibility, and interspecies differences in carcinogenesis. Institute scientists are recognized internationally for their integration of research using animal models, human lung tumors, primary human and animal cell cultures and cell lines, and contemporary molecular and cell biology techniques to study lung cancer mechanisms, risk, and intervention. In addition to independent research, the Institute has broad experience in collaborating with epidemiologists and laboratory researchers in industry and academia.

- 10: Cell Biology

Provides extensive expertise in various aspects of cellular physiology and biochemistry. Cell systems under study include neurons, immune system cells and exocrine cells. The primary emphasis of the group is the responses of cells to naturally occurring compounds as well as toxic or potentially therapeutic agents.

- 11: Inhalation Toxicology

Provides a full range of inhalation bioassays in its well-known inhalation toxicology laboratory and is widely known for its leadership in the field. We integrate leading-edge expertise in generation and characterization of exposure atmospheres, exposure technology, dosimetry, and evaluation of health outcomes, as needed to meet study goals. The facility has capabilities and capacity to conduct single or repeated, nose-only, oral, or whole-body inhalation exposures of all laboratory species. Exposures range from individual animals for preliminary investigations to large-scale carcinogenicity bioassays. The Institute has broad experience with exposures of animals to gases, vapors, and particles, exposures using limited quantities of materials, exposures to hazardous and radioactive materials, and exposures to complex mixtures. Our scientists work with sponsors during all phases of studies from experimental design to interpretation of findings.

- 12: Dosimetry and Toxicokinetics

Conducts research to determine metabolic pathways, the distribution of parent compounds and metabolites to target sites, the doses of drugs or toxicants required for therapeutic or toxic effects, and interspecies differences important in estimating human risk. LBERI has broad capabilities in this field, and is especially recognized as a major center for the dosimetry of inhaled compounds.

Leading edge analytical chemistry and radioanalytical capabilities are combined with expertise in inhalation exposure, biochemistry, toxicology, and pathology to resolve the fate of toxicants in the body, doses to target tissues, and markers in fluids, tissues, and excreta. These capabilities are integrated to provide information required to understand health risks, optimize the efficacy of pharmaceuticals, and select laboratory species most predictive of human responses.

- 13: Immunotoxicology

Provides research that contributes to the understanding of the effects of several environmental xenobiotics on the immune system, including cigarette smoke, silica, diesel exhaust smoke, and beryllium, at the organ, cellular, and molecular levels. LBERI is ideally suited to evaluating the effects of inhaled toxicants on the immune response of lymphoid tissues and the lung.

- 14: Fiber Toxicology

Provides a range of measurements and assays to determine the potential biological behavior of organic and inorganic fibers. A strong basic research program on fiber aerodynamic behavior complements this testing capability, factors influencing biological behavior, the mechanisms of early responses and late-occurring fiber-induced disease, and the relationships between fiber characteristics and toxicity. The co-location of product testing and basic research capabilities makes us an excellent source for either stepwise or integrated evaluations of the bioreactive potential of fibers, and biodirected product selection or development.

- 15: Radiation Dosimetry and Toxicology

Provides state-of-the-art expertise in aerosol generation and characterization technology, multispecies exposure capability, radiation measurement, pathophysiology, pathology, and dose/response/risk evaluation and modeling. Material-specific dosimetry and toxicology for process materials, radiolabeled drugs, and custom-produced test materials can be evaluated at the cell, tissue, organ or whole organism levels. Evaluation endpoints range from molecular markers of dose and effect, to physiological response, to traditional gross and histopathological evaluation. Our scientists are experienced in handling scarce, hazardous materials and work with sponsors during all phases of studies, from experimental design to interpretation of findings.

- 16: Assessment and Control of Airborne Contaminants

Provides a range of consulting, field, and laboratory capabilities to help customers solve industrial hygiene, health protection, and process selection problems related to airborne contaminants. Widely recognized expertise in aerosol sampling, personnel and area monitoring, physical, chemical, biological, and radiological analyses, laboratory-scale process simulation, and characterization of health risks is integrated to meet specific customer needs. Institute staff members work independently, with customer's in-house staff, or with consultants to add the required expertise to the problem-solving team.

- 17: Biological Monitoring

Provides research and development in biological markers and their practical application in epidemiological studies and worker surveys. Biological monitoring provides measures of dose, and often effects, resulting from exposures of humans to chemical and radioactive toxicants in the workplace and environment. Our scientists adapt standardized assays and also develop novel assays as needed to meet the requirements of specific exposure assessments. In addition to developmental research in the laboratory, our staff members work in partnership with occupational and public health professionals, epidemiologists, and other researchers to design biomonitoring strategies, collect samples in the field, perform analyses, and analyze results.

- 18: Environmental Epidemiology

Provides expertise in environmental epidemiology by working with cities and water utilities to examine the risks of waterborne transmission of the parasite *Cryptosporidium* in drinking water.

- 19: Pathology

Provides a wide range of technical and professional pathology services to industry, academia, and contract research organizations conducting research, development, and testing in animals. Our wide range of clinical pathology, necropsy, histopathology, and molecular pathology capabilities are highlighted by internationally recognized expertise in experimental pathology of the respiratory tract and skin. These services are integral to our in-house basic and applied research activities, and are offered to other customers and collaborators lacking pathology capabilities or requiring specialized expertise not available in-house.

- 20: General Toxicology

Conducts research on the basic mechanisms by which substances inhaled, ingested, or absorbed through the skin cause adverse health reactions. This research ranges from detailed studies of the fundamental cellular and genetic mechanisms of toxic response to applied studies focused on determining the nature and strength of health hazards from toxic agents in the environment and commercial products. The sciences of dosimetry, pharmacokinetics, and biological responses are integrated to characterize human health hazards and the underlying physiological mechanisms.

- 21: Cardiovascular Toxicology

Conducts research to determine the effects of exposure to toxic materials on the heart and vascular system. These studies involve the exposure of various combinations of animal species, age, gender, and genetic background that mimic certain human populations, the exposure of those biological models to the material of interest at different doses, and the measurement of adverse effects on the electrocardiogram, blood flow, heart pathology, arteries and veins, and blood clotting systems. This research includes studies of toxic effects, studies aimed at developing new therapies, and studies aimed at determining the potential benefits and side effects of new pharmaceuticals.

- 22: Animal Resources

Provides extensive animal housing, routine and specialized animal care, and animal clinical capabilities are available to clients with animal breeding, quarantine, housing, and research needs. Animals can be received, quarantined, maintained, and shipped as needed. Necropsy and histopathology services are available. LBERI has AAALAC-accredited, state-of-the-art facilities for rodents, dogs, and both individually housed and group-housed primates. Facilities are available for meeting all quarantine and isolation requirements. The Institute employs highly qualified animal care and clinical staff, including ACLAM-accredited veterinary management, certified animal technicians, and experienced clinical staff.

- 23: Bio-safety Level Three (BSL-3)

Extensive new BSL-3 level animal exposure facilities are available for collaborative or contract work with qualified entities at the Lovelace Biomedical & Environmental Research Institute. In addition, the institute offers extensive facilities, infrastructure and trained professional staffing for aerosol science work, respiratory and cardiovascular physiology and exposure studies and infectious disease research to those individuals or organizations who have or are seeking federal or other funding for chemical, Biological and Nuclear Terrorism.

KEY CAPABILITIES

- Two large wind tunnels
- Tens of thousands of square feet of animal exposure labs
- 35 trained aerosol, toxicology, and exposure personnel at the Ph.D./MS/and BS level
- Numerous rodent, canine, and non-human primate models are available
- AAALAC, FDA, USDA, State and other regulatory licensure in hand
- Registered with CDC under Laboratory Registration for Select Agent Transfer program.
- Facilities and Experienced Staff Also Available for Chemical and Nuclear Terrorism studies.

GSA PRICING:

<u>Labor Categories</u>	<u>Government's Daily Rate Per Hour</u>
Senior Scientist	\$211.61
Scientist	\$146.86
Associate Scientist	\$114.30
Associate Research Scientist	\$82.71
Postdoctoral Fellow	\$54.25
Research Associate	\$74.47
Laboratory Supervisor	\$81.75
Senior Research Technologist	\$64.65
Research Technologist	\$46.43
Laboratory Technician	\$37.01
Laboratory Assistant	\$28.00
Senior Animal Care Technician	\$77.41
Animal Technician	\$42.48
Animal Care Assistant	\$30.65
Engineer/Project Manager	\$91.92

ES&H Professional	\$106.37
ES&H Technician	\$62.20
Maintenance Worker	\$60.71
Surveillance Worker	\$41.43