

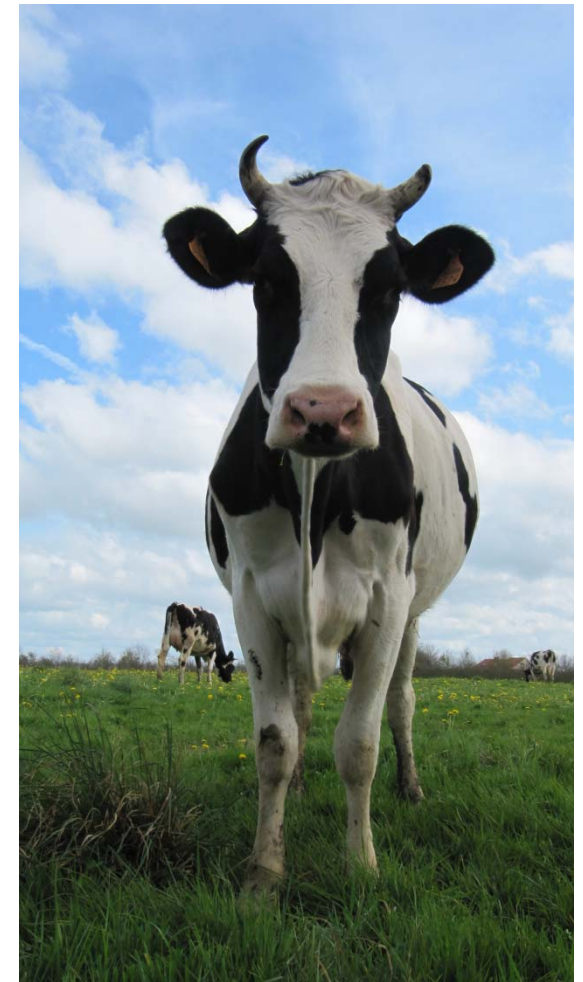


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"Within the College of Agriculture we have strong degree programs, cutting edge research and SDSU Extension specialists who work directly with producers and agribusiness to share research-based information and provide support."

- Dr. Barry Dunn, Dean of South Dakota State University, College of Agriculture and Biological Sciences

Animal Disease Research and Diagnostic Laboratory
N. Campus Drive, Box 2175
Brookings, SD 57007



South Dakota State University

Department of Veterinary and
Biomedical Sciences

Dairy Testing Services



The Veterinary and Biomedical Sciences Department is home to the Animal Disease Research and Diagnostic Laboratory, a full-service laboratory offering *dairy testing*.

Our services

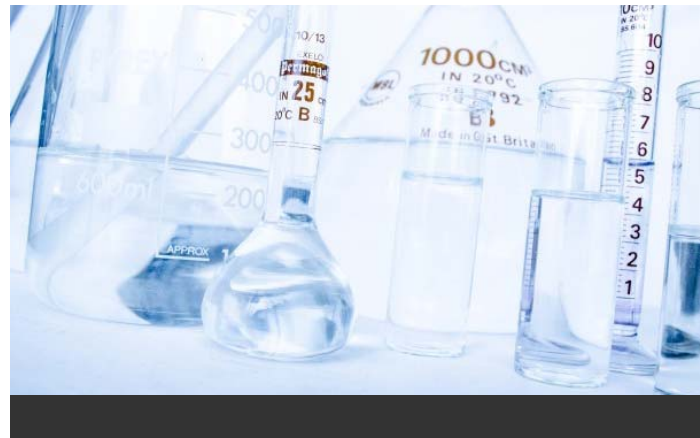
We provide mastitis, bulk tank, antimicrobial susceptibility testing, culturing of difficult environmental isolates via our ***state-of-the-art MALDI-TOF MS system***, as well as product safety testing for total plate counts, E. coli/Coliform counts and pathogen screens. We are happy to offer these **dairy testing services** to you, please contact us at the numbers to the right for more information!

Services Available:

- **Mastitis Testing**
- **Mycoplasma Screening**
- **Bulk Tank Testing**
- **Antibiotic Susceptibility Testing**
- **Environmental Culturing**
- **Milk Antibiotic Residue Testing**
- **Aerobic Plate Count (APC)**
- **Pathogen Testing (Salmonella, E. coli O157, non-O157 Shiga-toxin producing Escherichia coli, Genus Listeria, Campylobacter)**
- **E. coli/Coliform Counts**

For more detailed information, please visit our website at:

<http://sdstate.edu/vs/adrdl>



Who We Are

The South Dakota Animal Disease Research and Diagnostic Laboratory (ADRDL) has served the citizens of the state and region with timely and accurate veterinary diagnostic services since 1887. A dedicated and experienced staff performs a full range of diagnostic testing services that arm veterinarians and health officials with the information they need to protect and improve animal and therefore, human health.

More about us

Our Bacteriology and Food Safety Laboratory sections are experienced leaders in microbiology-based testing and can provide you the assistance you need in selecting the appropriate test for your production site and situation.

Contact Us

Animal Disease Research and Diagnostic Laboratory

**N. Campus Drive, Box 2175
Brookings, SD 57007**

(605) 688 5171

Visit us on the web:

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Prompt and Accurate Veterinary Diagnostic Services

NEW TECHNOLOGY: SDSU ADRDL has been using MALDI-TOF MS (matrix-assisted laser desorption ionization time-of-flight Mass Spectrometry) since early 2013 for accurate bacterial identification. The instrument can be used for all bacteria, whether aerobic or anaerobic, and even can be used for fungal species. Bacteriology section is using this instrument for identifying organisms from milk samples and other diagnostic samples. MALDI-TOF shortens turnaround time on results for clients. On a laboratory basis, the technology means that diagnostic workflows can be more productive and new research opportunities can be opened up.

Mastitis/Animal Health Testing

Milk Testing for mastitis	
Description	This test will identify any microorganism found in milk sample including <i>Strep. agalactiae</i> , <i>Staph. aureus</i> , <i>E.coli</i> , yeast, other <i>Staphylococcus</i> species and other <i>Streptococcus</i> species, <i>Trueperella pyogenes</i> and any other bacteria in high numbers.
Sample received	Monday -Friday
Samples tested	Monday- Saturday
Price	\$7.00
Turnaround time	3-4 days
Ideal specimen	2 ml milk
Shipping sample	Sterile tube with ice packs

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MASTITIS / ANIMAL HEALTH TESTING		Sample received	Samples tested	Price	Turnaround time	Ideal specimen	Shipping sample
Mycoplasma milk screening	Checks for presence of <i>Mycoplasma</i> species in individual cow milk or bulk tank. For specific <i>Mycoplasma bovis</i> identification, PCR tests can be requested.	Monday -Friday	Monday- Friday	\$12.00	8-10 days	2 ml milk	Sterile tube with ice packs
Bulk Tank testing	Enumerates major categories of bacteria in bulk tank milk,	Monday -Friday	Monday-Thursday	\$28.00	3-4 days	6 ml milk (minimum) collected on 3-5 consecutive days	Sterile tube with ice packs. Freeze samples immediately after collection. Samples must remain cold, preferably frozen.
Antibiotic Susceptibility	Determines whether bacteria is susceptible or resistant to commonly used antibiotics.	Monday -Friday	Monday -Friday	\$15.00 (One sensitivity is free with milk testing request)	2-3 days	2 ml milk or Pure culture	Sterile tube or plate with growth with ice packs.
Environmental samples	Checks for presence of <i>Salmonella</i> , <i>E.coli</i> or other bacteria in high numbers from different types of environmental samples such as bedding, water, milk replacers, feed, and laboratory isolates.	Monday -Friday	Monday -Friday	\$25.00-\$100 (depending on the type of sample and test)	2-4 days	Water, feed, culture plate	with ice packs
Rapid Testing for Antibiotics in Milk	Can be performed on request by a client or for research purposes.	Monday -Friday	Monday -Friday	Depends on the test	6 days	6 ml milk	with ice packs
PRODUCT SAFETY TESTING		Sample received	Samples tested	Price	Turnaround time	Ideal specimen	Shipping sample
Aerobic Plate Count	Indicates levels of microorganisms in product.	Monday - Friday	Monday - Wednesday	\$15	48 hours after test initiation	10ml milk	with ice packs
E.coli/Coliform Count	Quantitative analysis for the presence of <i>Escherichia coli</i> Biotype 1 and coliforms.	Monday - Friday	Monday-Wednesday	\$15	48 hours after test initiation	10ml milk	with ice packs
Pathogen Testing	Qualitative, validated testing for low levels of pathogens (<i>Escherichia coli</i> O157:H7, Shiga toxin-producing <i>E. coli</i> , <i>Campylobacter</i> , <i>Listeria monocytogenes</i> , Genus <i>Listeria</i>)	Monday - Friday	Varies by test, contact lab	Varies by test, contact lab	Varies by test, contact lab	25ml milk	with ice packs