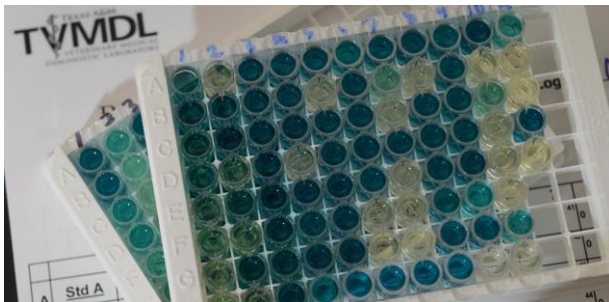


2018 TVMDL UPDATE



Dr. Jessie Monday
Bovine Veterinary Diagnostician
January 25, 2019

Amarillo Bacteriology & Serology Section Head

- Owais Khan, BVSc & AH, MVSc
- Diplomate American College of Veterinary Microbiologists
 - Specialties in virology, bacteriology, and mycology



New Microbiology Diagnostician in CS

- Melanie Landis, DVM, MBA
- Veterinary Diagnostician



New Endocrinologist in CS

- Jeremie Korchia, DVM, MS
- Diplomate of the American College of Veterinary Pathologists
 - Clinical Pathology
 - Endocrinologist



New College Station Lab Shipping Address

- Updated zip code
- Use the following address when shipping with an express courier:
TVMDL
483 Agronomy Rd
College Station, TX 77843-4471
- Southeast Vocational Alliance (SVA) accounts were updated automatically

TVMDL Proceedings Open Access

- TVMDL Speakers
- BRD Conference
- Winter Meeting

The screenshot shows the OAKTrust website interface. At the top, there is a dark red header with the Texas A&M University Libraries logo and name. Below this is a dark red bar with the OAKTrust logo. A breadcrumb trail indicates the current location: OAKTrust Home / State Agencies / Texas A&M Veterinary Medical Diagnostic Laboratory. The main heading is "Texas A&M Veterinary Medical Diagnostic Laboratory". Underneath, there is a "BROWSE BY" section with buttons for "By Issue Date", "Authors", "Titles", "Subjects", and "Department". Below the buttons is a search prompt: "Search within this community and its collections:". There is a search input field and a "Go" button. At the bottom of the search section, there is a link for "Advanced Search".

<http://oaktrust.library.tamu.edu/handle/1969.1/166441>

Histopathology has gone digital!

- July 2018 TVMDL implemented digital slide scanning technology
- All tissue processing for histopathology done at College Station
- More efficient evaluation of histopathology submissions
- You can request specific pathologists at the Amarillo laboratory to read your slides
- To maximize efficiency:
 - Submissions of only fixed tissues should be sent directly to College Station
 - Submissions of fresh tissues, a mixture of fresh and fixed tissues, and necropsies should be sent to the Amarillo laboratory.

New Tests

- BRD
 - Bovine coronavirus rtPCR
 - Bovine Influenza virus D rtPCR
- Fecal Culture Tests
 - E. coli virulence genes rtPCR
 - Clostridium perfringens typing rtPCR
- Dairy
 - Salmonella Dublin ELISA
 - Mastitis PCR
 - Staphylococcus aureus, Streptococcus agalactiae, and Mycoplasma bovis

New Tests – Toxicology

- New profiles that test either tissue/feed or serum/whole blood/plasma
 - Trace Mineral Profiles
 - Heavy Metal Profiles
 - Comprehensive Profiles (trace minerals and heavy metals)
 - Individual mineral or metal testing available too

New Tests – Toxicology

- Serum/Blood Mineral Profile
- Serum/Blood Mineral Profile
- Serum/Blood Mineral Profile

Digital Toxicology Services

Subjects for identification or comment:

- Potential toxic plants
- Potential toxic mushrooms
- Potential blister beetles
- Potential blue-green algae (will require a microscopic image. Image can be taken on a smart phone over eye-piece of microscope)
- Material observed in pet ingesta, unknown baits



digitaltoxicology@tvmdl.tamu.edu

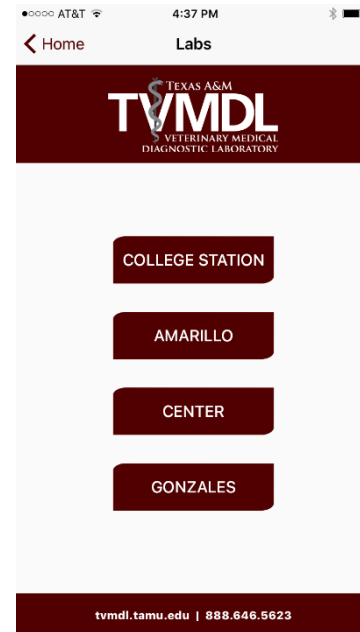
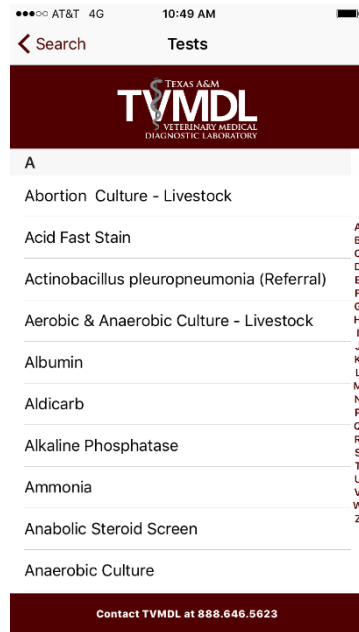


Download the
Free App
today.



Test information includes:

- A detailed description of the test.
- Specimens needed for testing.
- How to package and ship specimens safely.
- Pricing information.
- Test schedules and expected turnaround times.



The TVMDL app lets you easily access laboratory information and browse our 700+ tests wherever you are.

Laboratory information includes:




- Link to driving directions to all four locations.
- TVMDL contact information.
- Billing and physical addresses for sending specimens.
- Hours of operation.

WANT CYTOLOGY RESULTS WITHIN AN HOUR?



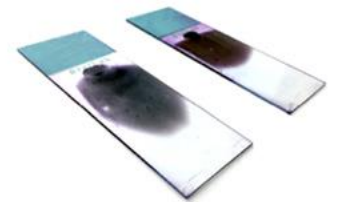
**Now you can, by using
your smart phone**

Here's How

1.  Capture slide images with any smart phone, camera eye piece adapters, or built-in microscope cameras.
2.  Submit microscopic images to:
digitalcytology@tvmdl.tamu.edu
3.  Receive a cytologic interpretation within an hour.

Price
\$65

Includes rapid image interpretation, and full cytologic evaluation of glass slides.



Updated app allows for submissions through directly through the app rather than email

TVMDL App Updates

- Digital Cytology submission
- Digital Toxicology submission

TEST CATALOG

LABORATORY INFO

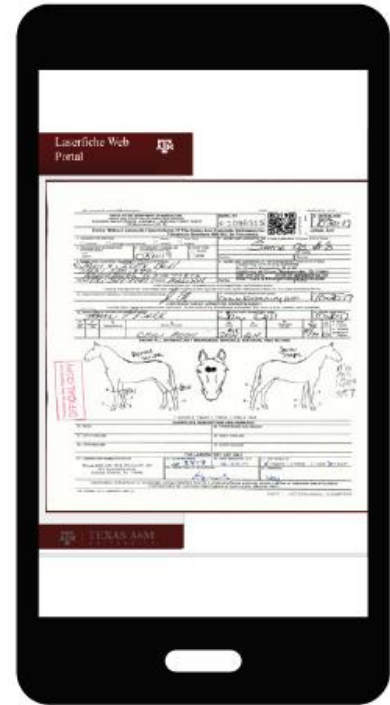
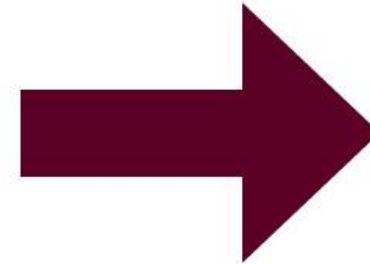
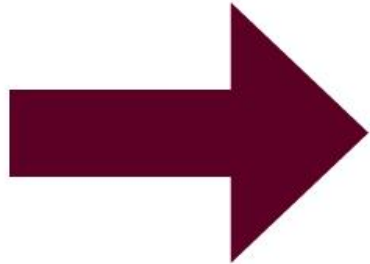
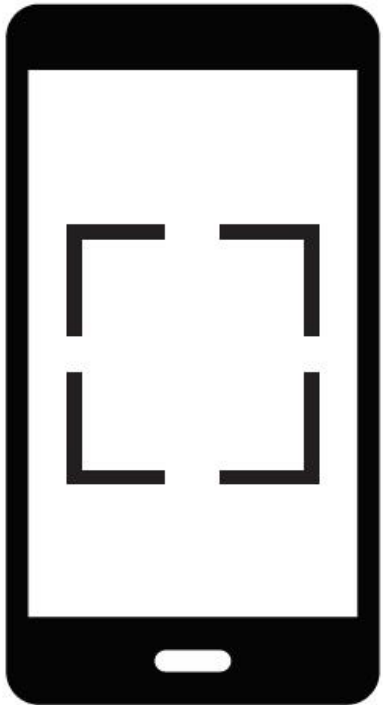
DIGITAL CYTOLOGY

DIGITAL
TOXICOLOGY

Electronic Reporting of EIA, Trich, & Piro

- The information reported is the same
- Turnaround time is decreased
- Can easily send the information via email
- Results can be sent directly to the owner at the same time as the veterinarian if the submitter provides the owner's email
- Reports can be validated via a QR code with any smartphone

Electronic Reporting of EIA, Trich, & Piro



- http://tvmdl.tamu.edu/wp-content/uploads/2019/01/L.038_1218.pdf

Updated Trich Testing Regulations 6.15.18

- All samples for PCR must arrive at TVMDL within **96 hours (4 days)** of collection
 - Arrival within 48 hours is highly recommended
- Samples submitted in the Inpouch for culture must arrive at TVMDL within **48 hours** of collection
- Inpouch TF samples will not be run if the expiration date is before the day the test is set up
- Field pooling is not allowed
- Official animal ID must be recorded on the Trich form
- **Samples that do not meet these guidelines will not be tested**

Tritrichomonas Foetus – Bovine (qPCR)

Detection of Tritrichomonas foetus in bovine samples by qPCR.

Direct qPCR Submission Guidelines

FAQ: Molecular Diagnostics Result Interpretation

Name	Tritrichomonas Foetus – Bovine (qPCR)
Section	Molecular Diagnostics
Species	Bovine
Specimen	InPouch Trich samples or direct smegma in PBS (phosphate buffered saline)
Sampling Requirements	1-2 mL preputial washes from bulls, cervical washes from cows, inoculated trich pouch, or stomach content of aborted fetus. Samples for direct smegma PCR should be placed in a test tube with 1.5 mL of PBS.
Collection Container	Trich pouch, leak proof plastic container, plastic or glass tube
Packing Instructions	<ul style="list-style-type: none"> InPouch: Label all samples. Maintain and ship samples overnight at room temperature. Protect from extreme heat and cold. Direct Smegma qPCR: Label all samples. Maintain at refrigerator temperature and ship overnight in cold packs. Protect from extreme heat and cold.
Special Instructions	<p>POOLING SAMPLES</p> <ul style="list-style-type: none"> Up to 5 properly collected and handled samples may be pooled for testing. Samples must be collected and shipped individually to TVMDL. For Texas Animal Health Commission's regulatory testing requirements, up to 5 samples may be pooled and pooling must be completed at TVMDL TVMDL pools samples for \$1 per pouch, allowing the client to test five samples for the price of one. Pricing example: 5 samples submitted and pooling requested would be charged \$25 testing fee + \$5 pooling for a total of \$30 plus accession fee. If a pooled sample results in a positive test, TVMDL will identify the positive animal(s) by testing the individual samples in the pool at the regular price of \$25 per test. Without the individual tests, all bulls in a positive pool are required by the State to go to slaughter. Pooling is not available for samples using the Direct smegma qPCR method. Direct smegma qPCR is only performed at the College Station laboratory.
Price	\$25.00

TVMDL Website Updates

Locations: [Amarillo](#) [Center](#) [College Station](#) [Gonzales](#) [Employment](#) [Contact Us](#)



Search this website ...



Translate:

[Find a Form](#) [Deliver a Sample](#) [Client Portal](#) [Become a Client](#) [Education Library](#) [About Us](#)

Search for Tests

Use the diagnostic rule outs tool »

Updated test catalog

- Named by pathogen
- (Testing method)
- [Referral]
- New search aliases

Search for Tests CBC, coggins...

All Species

SEARCH TESTS

Results 1–25 of 286 for "" in bovine.

An accession fee of \$7.00 is applied to each accession/case, not each specimen. Turnaround times are estimates in business days and apply to individual tests. Actual reporting of test results depends on the full battery of tests requested, day of the week/time of day samples arrive at the testing laboratory, and the quantity/quality of samples submitted.










The tests and fee schedules are provided for use by TVMDL clients, including veterinarians and animal owners. Fees charged to animal owners by veterinarians may exceed test prices shown herein, reflecting the time, expertise, and expense necessary to collect the sample, ship it in an appropriate manner, interpret results, and provide treatment advice.

Name ↑	Description	Species	Price	
E. coli toxin typing – Ruminant (rtPCR)	Tests for E. coli toxin and virulence genes commonly associated with pathogenic strains of E. coli: F5/K99 fimbrial adhesins, STa enterotoxin, LT enterotoxin, CS31a adhesins, CNF1 and CNF2 cytotoxic necrotizing factors, Stx1 and Stx2 Shiga like toxins, and eaeA intimin in E. coli isolates by real-time PCR (rtPCR). FAQ: Molecular Diagnostics Result Interpretation Specimen: Bacterial isolates of E. coli	Bovine, Camelid, Caprine, Cervid, Ovine	\$45.00	Details
Bovine coronavirus (rtPCR)	This PCR is validated to test fecal samples, intestinal contents, gastrointestinal tissues and bovine respiratory samples including nasopharyngeal swabs, and respiratory tissues. Specimen: Nasopharyngeal swabs, 1-2 ml transtracheal wash, 1-2 ml bronchoalveolar lavage, respiratory tissues such as 1.0 g of fresh or frozen lung or trachea, 1.0 g of fresh feces in clean container, intestinal contents, or gastrointestinal tissues.	Bovine	\$25.00	Details
Bovine Coronavirus (IFA Titration)	Bovine Coronavirus IFA Titration performed at Purdue University. (Referral)	Bovine	\$5.00	Details

Bovine Syndromic Plans




Deliver a Sample Client Portal Become a Client **Resources**

Search for Tests All Species

[Use the Cornell Consultant diagnostic rule outs tool »](#)

[View Bovine Syndromic Diagnostic Plans »](#)

Translate:   [Find a Form](#)[Deliver a Sample](#)[Client Portal](#)[Become a Client](#)[Resources](#)[About Us](#)Search for Tests All Species [SEARCH TESTS](#)

Bovine Syndromic Diagnostic Plans

TVMDL has compiled syndrome specific diagnostic plans to assist clients in efficient diagnostic testing strategies based on clinical signs or gross necropsy findings. The client still has the ability to select the tests within the diagnostic plans that fit with the diagnostic goals and pre-test clinical suspicion of each case. Simply select the syndrome most appropriate for the case and then indicate which tests are desired on the submission form.

Click below to view each plan:

[Bovine Respiratory Disease \(BRD\) Diagnostic Plan](#)[Bovine Sudden Death Diagnostic Plan](#)[Bovine Abortion Diagnostic Plan](#)[Bovine Neurological \(CNS\) Disease Diagnostic Plan](#)[Bovine Calf Diarrhea Diagnostic Plan](#)[Bovine Pinkeye \(IBK\) Diagnostic Plan](#)[Bovine Adult Diarrhea/Weight Loss Diagnostic Plan](#)[Bovine Biosecurity Diagnostic Plan](#)

Case Studies



Melanocytic Tumors in Cattle



Cattle Nutritional Decline in the Winter



Bone Sarcoma Found in Canine Rib Mass

[MORE CASE STUDIES...](#)

Species Specific Newsletters

- Quarterly
- Information
- Case Studies
- Handouts
- Species Specific
 - Equine
 - Bovine
 - Small livestock
 - Companion Animal
 - Avian
 - Exotic

TVMDL Quarterly Wrap Up

Texas A&M Veterinary Medical Diagnostic Laboratory (TVMDL) just wrapped up an exciting 2018! Our species specific quarterly newsletters will serve as a way to update clients on new tests, case studies, handouts, and other resources that have been created or updated over the course of each quarter. As always, feel free to visit our website, tvmdl.tamu.edu or call one of our laboratories for more information.

Case Studies

Each week, TVMDL publishes case studies to our website and social media pages. These brief write ups summarize only a few of the hundreds of cases TVMDL handles each day. View these case studies and more in our [Case Study Library](#).

- [Piccione featured in The Remuda publication](#)

Handouts

Species specific newsletters

The screenshot shows a web browser window with the URL <https://tvmdl.tamu.edu>. The browser's address bar and tabs are visible at the top. Below the browser, the website content is organized into three main columns:

- After Hours and Emergencies**
 - After Hours Sample Drop-off
 - After Hours Necropsy
 - STAT Testing
 - For veterinary emergencies, contact your local veterinarian or the Texas A&M Large or Small Animal Hospitals.*
- Testing Information**
 - TVMDL Fee Schedule
 - Disease Alerts
 - Analytical Chemistry: Drug Testing & Toxicology
 - Research Testing
 - Texas Pullorum-Typhoid Program
 - Rabies and Primates
 - Import/Export Testing
- Education Library**
 - 2018 New Client Packet
 - Blood Tube Reference Chart
 - 2017 Fumonisin Facts
 - Pruebas para la exportación de equinos
 - Equine Influenza
 - How to Safely Package a Sample for Shipping to TVMDL
 - How to Package a CWD Sample

Below these columns, there are two more sections:

- For Employees**
 - Employee Email
 - Employment Opportunities
 - TVMDL Rules & Procedures
 - Emergency Alert Systems
 - AgriLife People Directory
 - AgriLife Administrative Services
 - TAMUS Single Sign On
 - Facebook
- State of Texas**
 - Texas.gov Portal
 - Texas Veterans Portal
 - Statewide Search
 - Texas Homeland Security
 - Risk, Fraud, & Misconduct Hotline

At the bottom center, a red-bordered box contains the text: "Sign up for our species-specific newsletters!" with a "Click here!" button below it.

On the right side, there are two accreditation logos:

- USDA NATIONAL ANIMAL HEALTH LABORATORY NETWORK (NAHLN)**
- AAVLD ACCREDITED**

At the bottom right, there is another accreditation logo: **ISO/IEC 17025 ACCREDITED LABORATORY** with the text "CERTIFICATE: 3567.01" below it.

TVMDL on Facebook

facebook Email or Phone Password [Log In](#)
[Forgot account?](#)

TVMDL TEXAS A&M
VETERINARY MEDICAL
DIAGNOSTIC LABORATORY

Texas A&M
Veterinary Medical
Diagnostic Lab
(TVMDL)
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[Create a Page](#)

[Like](#) [Share](#) [Suggest Edits](#) [...](#) [Contact Us](#) [Send Message](#)

Posts

TVMDL **Texas A&M Veterinary Medical Diagnostic Lab (TVMDL)**
2 mins ·

In today's case study installment, Dr. Will Sims, veterinary pathologist at TVMDL Amarillo, discusses a melanocytic mass found on a young steer. Learn more by following <https://goo.gl/FcxVTS>.



Search Search for posts on this Page

Texas A&M Veterinary Medical Diagnostic Lab (TVMDL)
Local Business in College Station, Texas
[Open Now](#)

Community [See All](#)
 1,530 people like this
 1,539 people follow this

About [See All](#)



Translate:   



Find a Form

Deliver a Sample

Client Portal

Become a Client

Resources

About Us

Search for Tests

Bovine Syndromic
Diagnostic Plans

SEARCH TESTS

Education Library

Case Study Library

Electronic Reporting:
QR Coding Process

species from the

Education Library

Education Library: Porcine

Zika in Texas

Education Library: Bovine

Education Library: Canine

Education Library: Exotics & Pocket Pets

Education Library: Cervids

Education Library: Equine

Education Library: Feline

Education Library: Avian/Poultry

Education Library: Caprine/Ovine

Education Library

Download TVMDL's advice on diagnostic
icons to view all related content.



Syndromic Diagnostic Plans

- [Bovine Syndromic Diagnostic Plans](#)

General TVMDL Information

- [Introduction to TVMDL \(video\)](#)
- [TVMDL at a glance](#)
- [TVMDL Brochure](#)
- [Client information packet](#)
- [Providing diagnostics to the international community](#)

Fee Schedule

After Hours and Emergencies

After Hours Sample Drop-off

After Hours Necropsy

STAT Testing

For veterinary emergencies, contact your local veterinarian or the Texas A&M Large or Small Animal Hospitals.

Testing Information

[TVMDL Fee Schedule](#)

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Analytical Chemistry: Drug Testing & Toxicology

Research Testing

Texas Pullorum-Typhoid Program

Rabies and Primates

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AgriLife Administrative Services

TAMUS Single Sign On

Facebook

State of Texas

Texas.gov Portal

Texas Veterans Portal

Statewide Search

Texas Homeland Security

Risk, Fraud, & Misconduct Hotline

Sign up for our species-specific newsletters!

[Click here!](#)



ISO/IEC 17025
ACCREDITED LABORATORY
CERTIFICATE: 3567.01

Accession Fee

\$7.00 for all clients per accession.

Accession fees apply to each accession/case, not each specimen. An accession is defined samples from the same animal/herd/flock, submitted for the same condition, collected at the same time. This allows clients to receive bulk testing of same species (from the same owner) under one accession. Poultry submissions requesting multiples tests (e.g., AI, Mg/Ms, culture, etc.) for a single flock are counted as one accession.

Search:

Category ↕	Fee Name ↕	Fee Description	Laboratory Location ↕	Fee ↕
Additional Services	Inoculation Fee	Fee to inoculate feline trich pouch.	A, CS	\$7.00
Additional Services	Consultation/Interpretation Fee	Fee for toxicology staff to offer interpretation of water samples from the TAMU water lab.	CS	\$5.00
Additional Services	Pooling Fee - \$1	Fee to charge for pooling samples. Fee is applied for each additional sample after the first. To be used for trich pooling.	A, CS	\$1.00
Additional Services	Special Dilution	Fee to perform a serology test at a special dilution.	A, CS	\$12.00
Additional Services	Decalcification	Fee to decalcify hard tissues for histopathology.	CS	\$10.00
Additional Services	Endpoint Titer	Fee to determine an endpoint titer on a sample previously tested.	A, CS	\$12.00
Additional Services	NPIP Audit and Training	Fee charged for performing NPIP audit and/or training for NPIP sample collection.	CS	\$200.00
Additional Services	Field Trip - 100+ miles round trip	Fee for TVMDL professional to visit farm/ranch/pasture for diagnostic investigation. Field trip is equal to / greater than 100 miles round trip.	ALL	\$100.00

TVMDL 2019 Projects

- Continue test selection and interpretation resource development
- Syndromic plans for other species
- New client portal
 - More interactive
 - Digital submissions
 - View test statuses and access reports
- New custom information management system
 - Updated workflow and QA efficiency
 - Reformatted reports
- Construction of new laboratory building in Canyon



Canyon Laboratory

- 11,233 square feet
- Full service
- WTAMU Campus
- 2020 Completion





Protecting Animal and Human Health through Diagnostics



Questions and Suggestions

- Contact a TVMDL Veterinary Diagnostician
 - College Station: 888-646-5623 or 979-845-3414
 - Amarillo: 888-646-5624 or 806-353-7478
- Write request for diagnostician to call you on submission form
- Or email any questions or suggestions to
 - jessie.monday@tvmdl.tamu.edu
 - thensley@tvmdl.tamu.edu