

2017 TVMDL Update

Jessie Monday, DVM, MS

Terry Hensley, MS, DVM

December 8, 2017



2017 TVMDL Projects

- New Pathologist at Amarillo Lab
- TVMDL 50th year anniversary website
- TVMDL Mobile App
- Website Updates
- Shipping Updates
- Syndromic Panels
- New TVMDL Tests

Will Sims, DVM, MS



- Veterinary Pathologist
- 2007 DVM
- 2011 Anatomic Pathology Residency & MS
- FADD



2017 TVMDL Projects

- New Pathologist at Amarillo Lab
- TVMDL 50th year website
- TVMDL App
- Website Updates
- Shipping Updates
- Syndromic Panels
- New TVMDL Tests

tvmdl.tamu.edu



Search this website ...



Translate:   
 

[Find a Form](#)

[Deliver a Sample](#)

[Client Portal](#)

[Become a Client](#)

[Education Library](#)

[About Us](#)

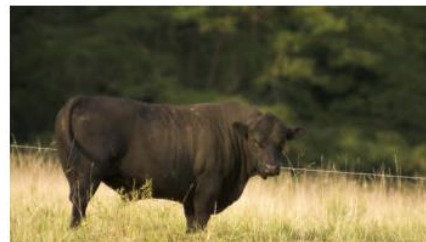
Search for Tests

All Species

[SEARCH TESTS](#)



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



tvmdl.tamu.edu



Search this website ...

CELEBRATING 1967 50 2017

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 »](#)



AgriLife.org/TVMDL50/



50 YEARS

A GRAND OPENING

ANNIVERSARY EVENTS

MILESTONES

THE PEOPLE

PHOTOS & VIDEO

TVMDL 50 years

CELEBRATING



Celebrating 50 Years of Service

- 2017 Educational & Social Events
- Videos & Photos
 - 50 years
 - Lab Look Backs
 - TVMDL Oral Histories
- Milestones
- The People
 - Agency Directors
 - TVMDL Emeriti
 - TVMDL Retirees

TVMDL 50th Anniversary Events

- “Rooted in tradition, building for the future”
- Jan 9, 2017
 - Texas A&M AgriLife Conference 50th Celebration
- April 19, 2017
 - College Station Lab Grand Opening
- 4-H Coloring, Art, & Photography Contest
- William & Catie Sippel Lecture Series

Celebrating 50 Years of Service

- 2017 Educational & Social Events
- Videos & Photos
 - 50 years
 - Lab Look Backs
 - TVMDL Oral Histories
- Milestones
- The People
 - Agency Directors
 - TVMDL Emeriti
 - TVMDL Retirees

Texas A&M
Veterinary Medical
Diagnostic Lab

CELEBRATING



More on the TVMDL YouTube Channel & 50 Years Website

Photos & Video




TVMDL
 17 subscribers
 SUBSCRIBE 17

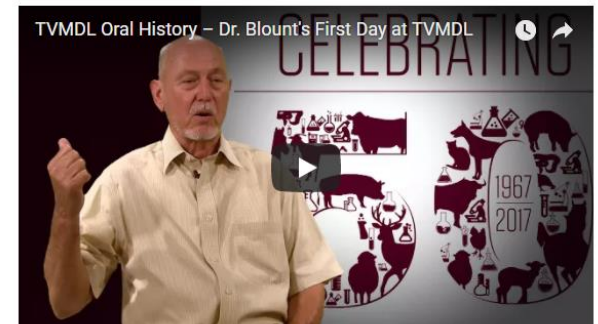
HOME

Uploads PLAY ALL



- Collecting Trich samples using in-pouch and direct
17 views • 6 days ago
- TVMDL Oral History – What makes Dr. Gilmore most
30 views • 1 week ago
- TVMDL Oral History – Sonia Lingsweiler's Start at TVMDL
67 views • 1 month ago
- TVMDL Oral History – Dr. Abbitt's Start at TVMDL
48 views • 1 month ago
- TVMDL Oral History – Michael Beauvais's Most
50 views • 1 month ago
- TVMDL Oral History – Dr. Blount's First Day at TVMDL
90 views • 2 months ago

TVMDL Oral History – Dr. Blount's First Day at TVMDL



Celebrating 50 Years of Service

- 2017 Educational & Social Events
- Videos & Photos
 - 50 years
 - Lab Look Backs
 - TVMDL Oral Histories
- Milestones
- The People

Check out the rest...

Milestones

A lot of things can happen in a half century, and for TVMDL it has been full of achievements, discoveries, and service.

- **1967** – The 60th Texas Legislature establishes the Texas Veterinary Medical Diagnostic Laboratory (TVMDL) as a separate state agency under the administration of The Texas A&M University System. From 1967 to 1995, a rider was attached to this legislation stating that TVMDL should give highest priority to diagnostic work involving large animals.
- **September 1, 1969** – The 18,000-square-foot Texas Veterinary Medical Diagnostic Laboratory opens on the Texas A&M University campus in College Station, with Texas A&M College of Veterinary Medicine professor William Sippel as the first director. Over the next five decades, additions were made to accommodate expanded laboratories and more sophisticated equipment.
- **1971** – The Experiment Station's Poultry Diagnostic Laboratory at Gonzales is built to replace the South Texas Poultry Research Station, founded in 1949.
- **1973-1975** – 1973–75 The 63rd Texas Legislature establishes the Texas Veterinary Medical Diagnostic Laboratory at Amarillo to address the needs of the young and rapidly growing cattle feedlot industry. The facility opens in 1975.

The People

In reflecting on our first 50 years, it seemed only fitting to recognize the key individuals who have made TVMDL what it is today. Its unique in an organization's history to have this opportunity – that is, to celebrate a milestone with almost all of the key staff who are responsible for our success. In so many organizations, people come and go so quickly these days. It's rare to have so many employees spend the bulk of their professional career with one organization. Read below to learn about the people who've made TVMDL a success for the past 50 years.

[Agency Directors](#)

[TVMDL Emeriti](#)

[TVMDL Retirees](#)

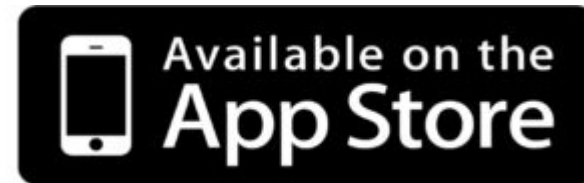
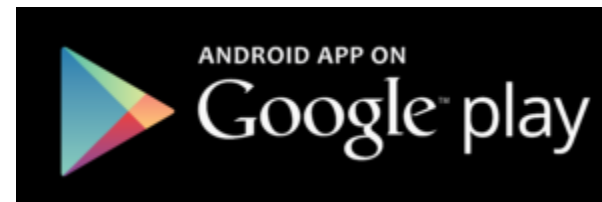


2017 TVMDL Projects

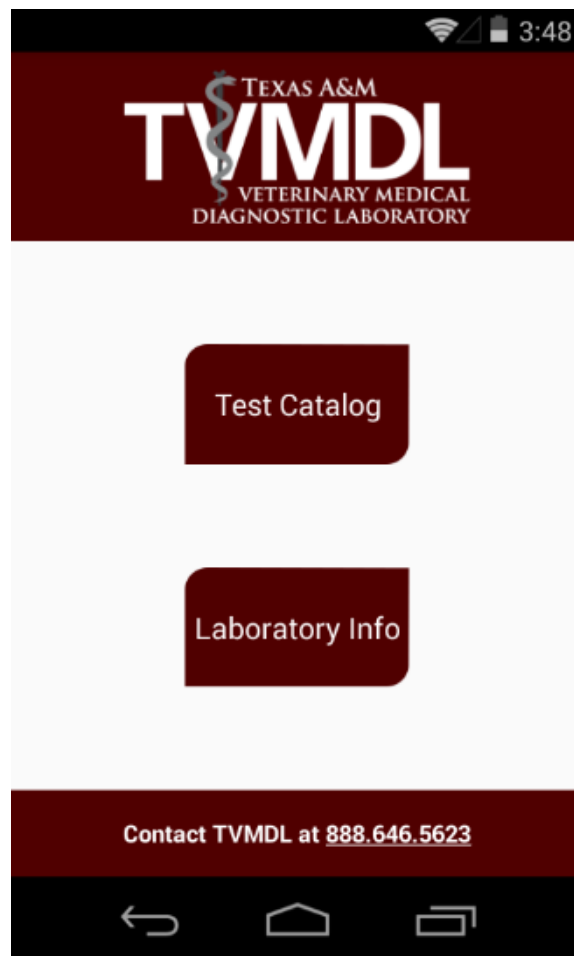
- New Pathologist at Amarillo Lab
- TVMDL 50th year website
- TVMDL App
- Website Updates
- Shipping Updates
- Syndromic Panels
- New TVMDL Tests

TVMDL Mobile App

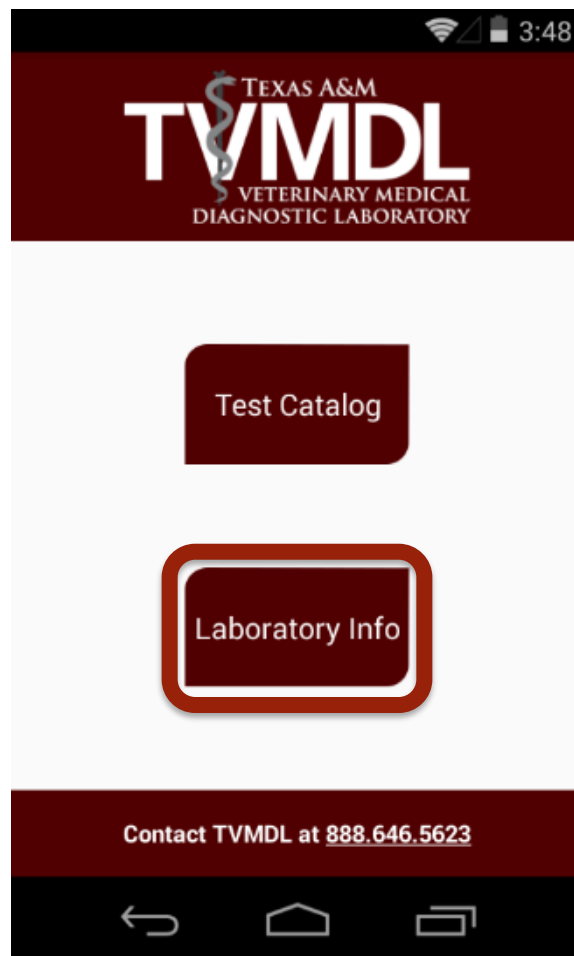
- Free for both Android and iOS



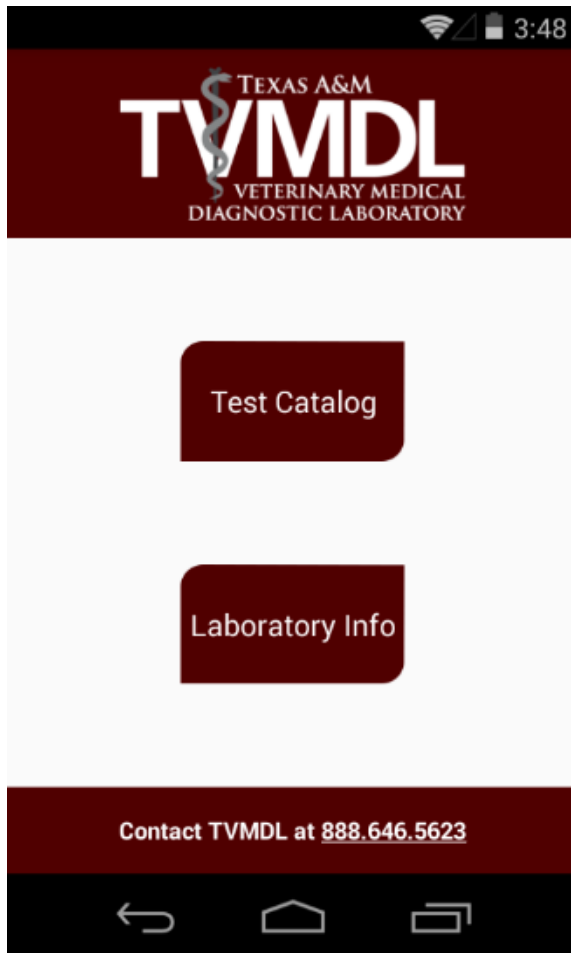
TVMDL Mobile App



TVMDL Mobile App



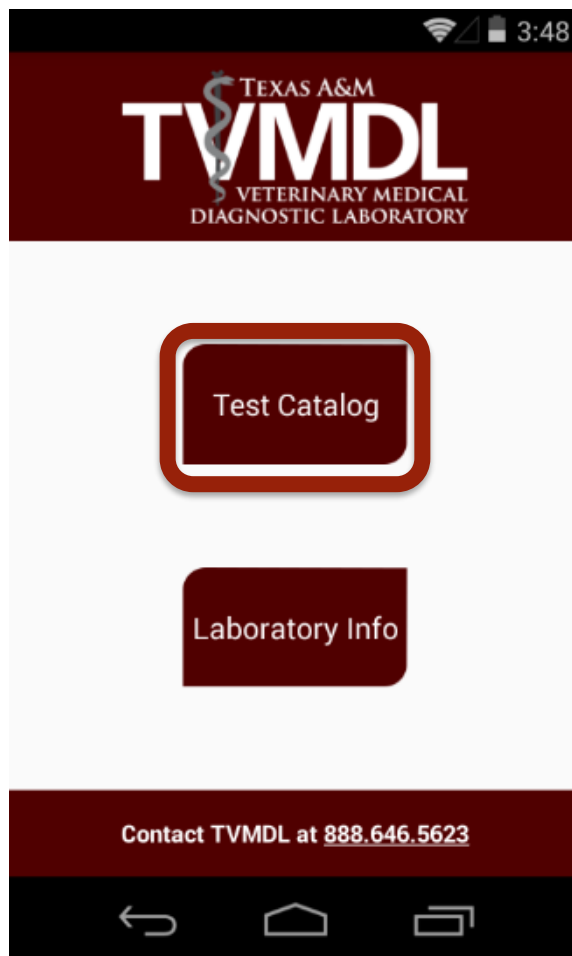
TVMDL Mobile App



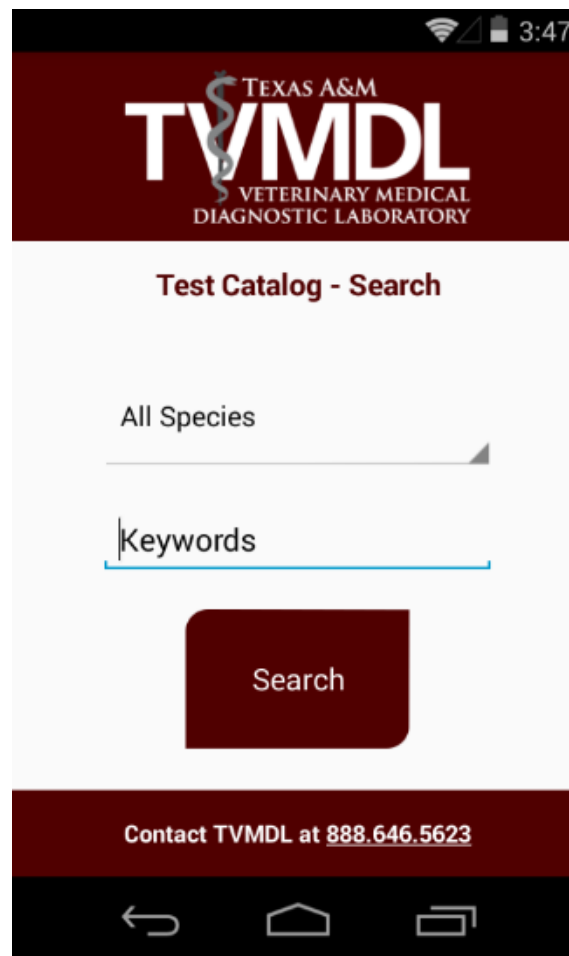
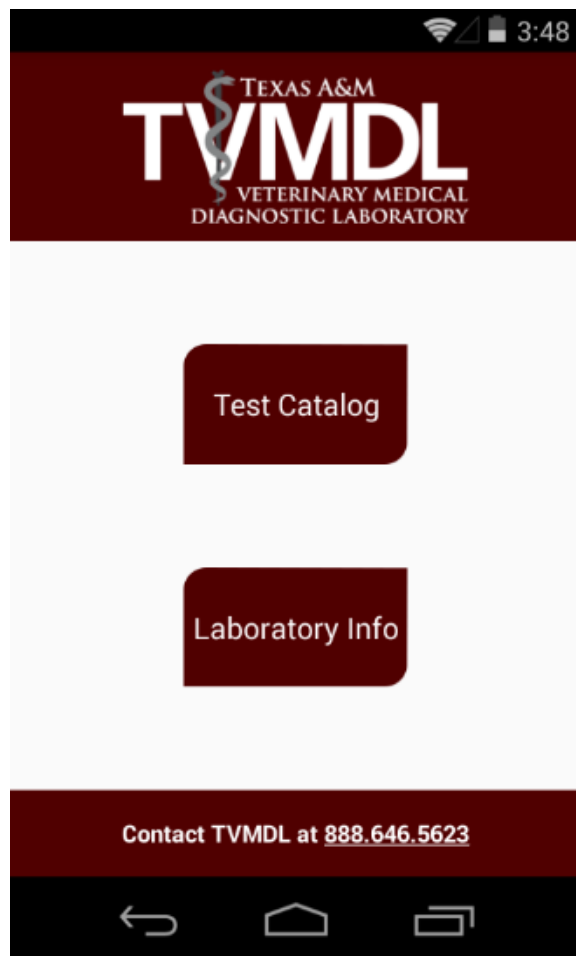
Laboratory Information:

- Link to driving directions
 - All 4 labs
- Contact Information
- Billing & physical addresses
- Hours of operations

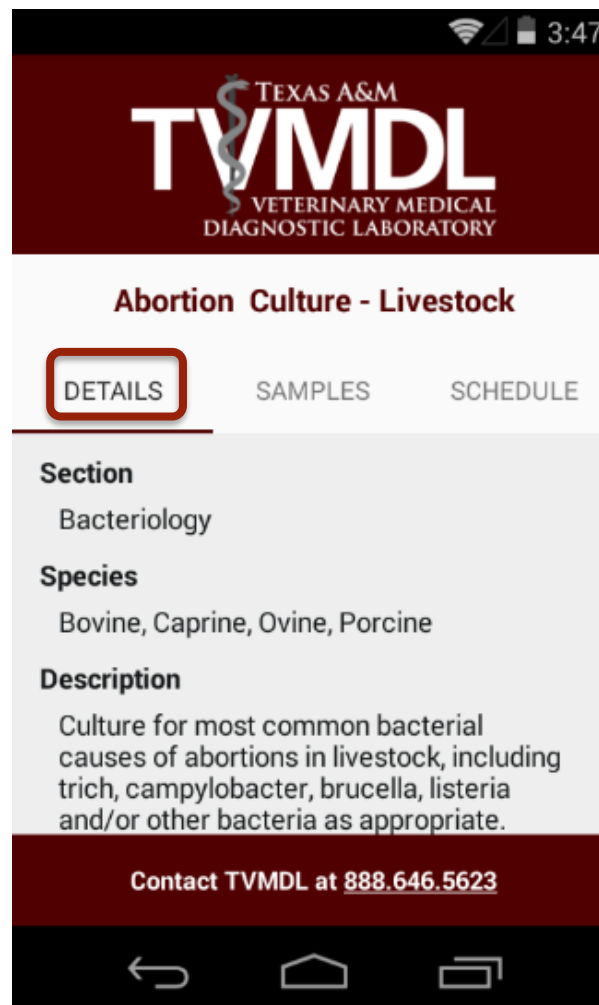
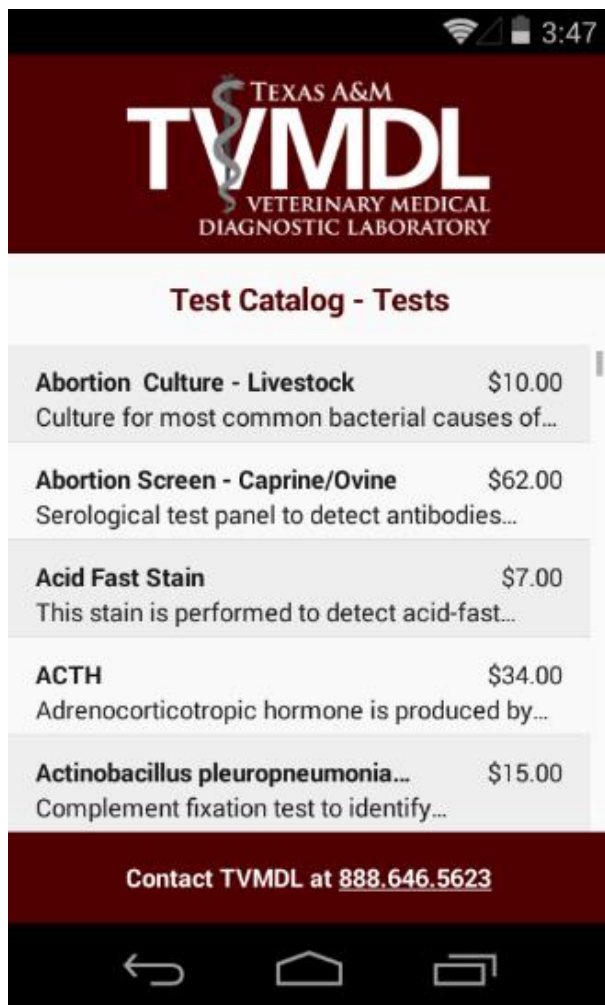
TVMDL Mobile App



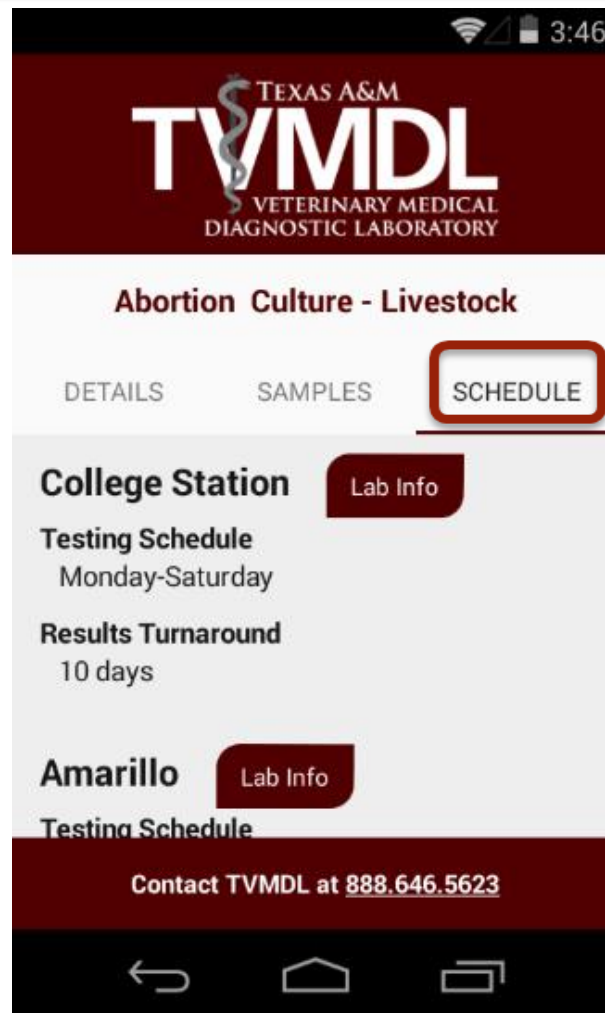
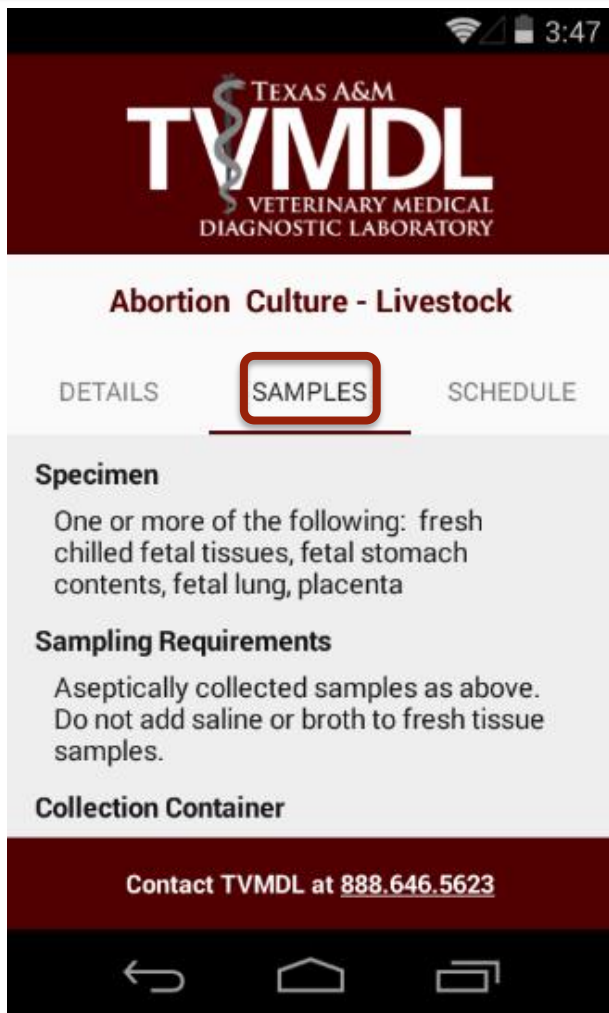
TVMDL Mobile App



TVMDL Mobile App



TVMDL Mobile App



2017 TVMDL Projects

- New Pathologist at Amarillo Lab
- TVMDL 50th year website
- TVMDL App
- Website Updates
- Shipping Updates
- Syndromic Panels
- New TVMDL Tests

TVMDL Website Updates

Locations:

[Amarillo](#)

[Center](#)

[College Station](#)

[Gonzales](#)




[Employment](#)

[Contact Us](#)



Search this website ...

CELEBRATING
50
1967
2017

Translate:   



[Find a Form](#)

[Deliver a Sample](#)

[Client Portal](#)

[Become a Client](#)

[Education Library](#)

[About Us](#)

Search for Tests

All Species 

[SEARCH TESTS](#)



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

tvmdl.tamu.edu



Education Library

[Education Library: Porcine](#)[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 services for free. Select a species from the icons to view all related content.



General TVMDL Information

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

Drug Testing

TVMDL Website Updates

- Education Library
 - Promotional material removed
 - Reference material updated
 - Information filed under test section and/or species
 - General, Drug Testing, Bacteriology, Clinical Pathology, Histopathology & Necropsy, Molecular Diagnostics, Toxicology, Packaging & Shipping
 - Bovine, Feline, Canine, Porcine, Avian/Poultry, Caprine/Ovine, Equine, Cervids, Exotics & Pocket Pets
 - More material on the way...

TVMDL Website Updates



Search this website ...



Find a Form

Deliver a Sample

Client Portal

Become a Client

Education Library

About Us

Specimen Collection Information

Packaging Samples for Shipment

Drop Off a Sample


Order Supplies

..., coggins...

All Species

SEARCH TESTS



 Use the diagnostic rule outs tool »



TVMDL Website Updates

Find a Form Deliver a Sample Client Portal Become a Client Education Library About Us

Search for Tests: CBC, coggins... All Species SEARCH TESTS

Deliver a Sample

- Order Supplies
- Racing and Livestock Show Supplies
- Specimen Collection Information**
- Drop Off a Sample
- Packaging Samples for Shipment
- Examples of Improper Packaging
- Links to Carriers
- Shipping Regulation References

Specimen Collection Information

This page offers clients a general guide for specimen collection. Please see individual tests for exact sample requirements and [contact TVMDL](#) if you have questions about a specific test's sample requirement.

- Tube submission reference chart
- Guide for submitting fungal cultures
- Proper blood smear preparation
- Equine Hair Collection Guide

Serum/Plasma

- Serum should be collected from clotted samples in a centrifugation separating tube with a red top, tiger top tube with a clotting activator or a Serum Separator Tube (SST) with a gold top. Serum and plasma need to be separated from red blood cells and placed in a secondary vial as soon as possible (within 60 minutes). Allow serum samples to clot completely before centrifuging. Even when using serum separator tubes, serum should be decanted into another tube before shipping as red cells can diffuse through the gel after a few hours.

Specimen Information:

- Serum/Plasma
- Whole Blood
- Urine
- Slides
- Fluids/Aspirates
- Swabs
- Fecal Samples
- Feed/Forage
- Fixed Tissue
- Hair
- Necropsy

TVMDL Website Updates

Locations:

Amarillo

Center

College Station

Gonzales

Employment

Contact Us



Search this website ...

CELEBRATING 50 1967 2017



Find a Form

Deliver a Sample

Client Portal

Become a Client

Education Library

About Us

Search for Tests

All Species

SEARCH TESTS



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



TVMDL Website Updates

Use the diagnostic rule outs tool »



Weimaraner puppy diagnosed with Chagas disease



TVMDL adds *Tritrichomonas foetus* (Tfoe) Direct qPCR test to test catalog



TVMDL updates herd level dairy metabolic profiles

[MORE NEWS...](#)

After Hours and Emergencies

After Hours Sample Drop-off
After Hours Necropsy
STAT Testing

Testing Information

TVMDL Fee Schedule
Disease Alerts
Analytical Chemistry, Drug Testing & Toxicology

Education Library

2017 New Client Packet
Blood Tube Reference Chart
2017 Fumonisin Facts

tvmdl.tamu.edu

TVMDL Website Updates

Find a Form

Deliver a Sample

Client Portal

Become a Client

Education Library

About Us

Sign up for TVMDL news

Email

SIGN UP

Latest News

Weimaraner puppy diagnosed with Chagas disease

December 5, 2017

TVMDL adds *Trichomonas foetus* (Tfoe) Direct qPCR test to test catalog

November 30, 2017

TVMDL updates herd level dairy metabolic profiles

November 29, 2017

Spanish Galgo rescued from Spain, diagnosed with Leishmania

November 15, 2017

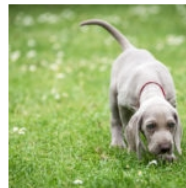
TVMDL's Amarillo facility to host seminar on December 8

November 14, 2017

Akey awarded 2017 APHIS Administrator's Award

Weimaraner puppy diagnosed with Chagas disease

December 5, 2017 by Mallory Mobly



With over 800,000 tests run annually, TVMDL encounters many challenging cases. Our case study series will highlight these interesting cases to increase awareness among veterinary and diagnostic communities. Chagas disease was diagnosed via blood ... [\[Read more...\]](#)

Filed Under: Case Study, News

Tagged With: canine, Chagas, college station, disease, TVMDL, veterinary, Weimaraner puppy

TVMDL adds *Trichomonas foetus* (Tfoe) Direct qPCR test to test catalog

November 30, 2017 by Mallory Mobly



Effective November 1, the Texas A&M Veterinary Medical Diagnostic Laboratory (TVMDL) began accepting samples for the new *Trichomonas foetus* (Tfoe) Direct qPCR test. The Tfoe Direct qPCR test has increased sensitivity which aids in the ... [\[Read more...\]](#)

TVMDL on Facebook



Email or Phone

Password

[Log In](#)

[Forgot account?](#)



Texas A&M
Veterinary Medical
Diagnostic Lab
(TVMDL)
[@tvmdl](#)

[Home](#)
[About](#)
[Photos](#)
[Events](#)
[Videos](#)
[Posts](#)
[Community](#)

[Create a Page](#)



TEXAS A&M
TVMDL
VETERINARY MEDICAL
DIAGNOSTIC LABORATORY

[Like](#) [Recommend](#) [...](#)

[Send Message](#)

Local Business in College Station, Texas

[Closed Now](#)

Community [See All](#)

[Like](#) 1,287 people like this

[Follow](#) 1,280 people follow this

About [See All](#)

[Phone](#) (888) 646-5623

[Website](#) tvmdl.tamu.edu

[Local Business](#)

[Hours](#) Opens at 8:00am

Photos



CELEBRATING

2017 TVMDL Projects

- New Pathologist at Amarillo Lab
- TVMDL 50th year website
- TVMDL App
- Website Updates
- Shipping Updates
- Syndromic Panels
- New TVMDL Tests

Shipping SVA

- Southeast Vocational Alliance (SVA)
- Non-profit, private freight & logistics organization
- Shipping coordination services
 - Customer service
 - Wider array of shipping options
 - Lower shipping prices



Login

Enter your user credentials below

Client Id

(max 6 characters)

User Name

(max 50 characters)

Password

(min 8 characters) [Forgot your password?](#)

Any Problems?
Contact our support department - operations@svalogistics.com


Search[Specimen Collection Information](#)[Packaging Samples for Shipment](#)[Drop Off a Sample](#)[Order Supplies](#)[Deliver a Sample](#)[Order Supplies](#)[Racing and Livestock Shipping](#)[Specimen Collection Information](#)[Drop Off a Sample](#)[Packaging Samples for Shipment](#)[Examples of Improper Packaging](#)[Links to Carriers](#)[Shipping Regulation References](#)

All Species

SEARCH TESTS

Order Supplies

TVMDL provides clients with supply shipping containers that comply with all requirements for shipping Category B biological substances for a nominal fee (order below). If used as designed, this packaging will comply with all requirements.

While TVMDL has no affiliation with the following companies, we are happy to provide a few links for sources of products used to ship diagnostic samples. This is not a complete list, but may serve as a starting point.

- [InfeKta](#)
- [Therapak](#)
- [EXAKT-PAK](#)
- [Casing Scientific](#)

Supply Order Form

Order supplies from... *

College Station

Amarillo

Name *

2017 TVMDL Projects

- New Pathologist at Amarillo Lab
- TVMDL 50th year website
- TVMDL App
- Website Updates
- Shipping Updates
- Syndromic Panels
- New TVMDL Tests

Syndromic Panels

- Important clinical syndromes by species
- Easy ordering
- Core tests for efficient, economical initial testing
- Some clinical presentations, regions, situations will require additional testing
- Selection of secondary testing based on results of initial testing (if needed)
- Veterinary diagnosticians available to help
- Please review sample requirements before ordering

Online Test Catalog

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

Results 1–25 of 34 for "panel" in canine.

An accession fee of \$6.00 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
Canine Vaccine Panel	ELISA test to detect antibodies to both Parvo and Distemper viruses. This assay is utilized for screening for vaccination status. Specimen: 1.0 mL serum	Canine	\$16.00 Close
Name	Canine Vaccine Panel		
Section	Virology		
Specimen	1.0 mL serum		
Sampling Requirements	None if serum is separated. Cold pack otherwise.		
Collection Container	Plastic or glass tube		
Packing Instructions	Label all samples. For multiple samples, number the tubes consecutively in order using a permanent marker. Include a list of sample names/numbers with submittal form.		

Canine Syndromic Panels

- Canine Vaccine Panel (\$16)
 - Parvovirus & Distemper virus ELISA
- Distemper/Parvovirus Titer Panel (\$35)
 - Hemagglutination inhibition antibody detection
- Canine Respiratory Disease qPCR Panel (\$60)
 - Bordetella bronchiseptica, canine adenovirus 2, canine distemper virus, canine herpesvirus 1, canine influenza (includes subtypes H3N8 and H3N2), canine respiratory coronavirus, and canine parainfluenzavirus

Feline Syndromic Panels

- Sick Cat Panel (\$51)
 - Feline immunodeficiency virus & feline coronavirus (FIP) antibodies, feline leukemia virus antigen
- Feline Titer Panel (\$40)
 - Panleukopenia, feline calicivirus, feline herpesvirus
- Feline Upper Respiratory qPCR Panel (\$60)
 - Bordetella bronchiseptica, Feline herpesvirus, Feline calicivirus, influenza A, Chlamydophila spp., & Mycoplasma spp.

Online Test Catalog

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

Bovine

[SEARCH TESTS](#)

Results 1–25 of 80 for "panel."

An accession fee of \$6.00 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	
Bovine Abortion Panel: Fetal Tissues	<p>TVMDL compiled diagnostic panels to assist clients in efficient diagnostic testing for bovine abortion with fetal tissues. The client still has the ability to add or delete tests as desired. Tests included in this panel: bacterial abortion culture, histopathology, bovine herpesvirus 1 PCR, bovine viral diarrhea virus PCR, Leptospira spp. PCR, Neospora caninum PCR, and [...]</p> <p>Specimen: Fetus or fresh chilled liver, kidney, abomasal contents, skeletal muscle, spleen, lung, brain, heart, and placenta (if available). 10 g of fresh liver is needed for Liver toxicology testing. Submitting placenta will improve the chances of diagnosing an infectious cause of abortion. Tissue specimens fixed in 10% neutral buffered formalin before shipment will improve histopathology results.</p>	Bovine	\$212	Details
Bovine Sudden Death Tissue Panel	<p>TVMDL compiled diagnostic panels to assist clients in efficient diagnostic testing for bovine sudden death. Other tests may need to be added to the panel on a case by case basis. Please call and consult with TVMDL Veterinary</p>	Bovine	\$203	Details

Bovine Syndromic Panels

- Bovine Abortion Serology

- Basic (\$18)

- Lepto titers (5 serovars), Neospora caninum ELISA, Brucella abortus card test

- Comprehensive (\$44)

- Basic tests + Histophilus somni agglutination test, IBR VN, BVD VN (1A, 1B, 2)

Bovine Syndromic Panels

- Bovine Abortion Panel: Fetal Tissues (\$212)
 - Bacterial abortion culture
 - Histopathology
 - Bovine herpesvirus 1 qPCR
 - Bovine viral diarrhea virus qPCR
 - Leptospira spp. qPCR
 - Neospora caninum qPCR
 - Liver Vitamin A quantification

Bovine Syndromic Panels

- Bovine Sudden Death Tissue Panel (\$203)
 - Histopathology
 - Livestock (anerobic and aerobic) culture
 - Anaplasma marginale PCR
 - Histiotoxic Clostridium FA
 - Rumen content microscopic analysis
 - Qualitative nitrates
- Veterinary Diagnosticians, Toxicologist, & Pathologists available for consultation
 - Additional 1° or 2° testing based on clinical presentation and history

Bovine Syndromic Panels

- Bovine Neurologic Disease Tissue Panel (\$197.50)
 - Histopathology
 - Livestock (anerobic and aerobic) culture
 - Kidney Lead
 - Bovine Herpesvirus-1 qPCR
 - McMasters EPG
 - Vitamin A&E quantification
 - Qualitative nitrates
- Please send us brains!
- Indicate if Rabies is suspected

Bovine Syndromic Panels

- Bovine Adult Diarrhea/Weight Loss Panel (\$109.50)
 - Fecal culture
 - Salmonella serovar typing at NVSL if isolated
 - Qualitative fecal flotation
 - Bovine diarrhea qPCR multiplex
 - Bovine coronavirus, bovine rotavirus A, & cryptosporidium
 - Johne's Disease fecal qPCR
 - BVD antigen capture ELISA (ACE)
 - Bovine leukemia (BLV) ELISA

Bovine Syndromic Panels

- Calf Diarrhea Fecal Panels (≤ 60 days)
 - Basic Calf Diarrhea Panel (\$35)
 - bovine coronavirus, bovine rotavirus A, & cryptosporidium qPCR
 - Comprehensive Calf Diarrhea Panel (\$119)
 - Basic Panel (qPCR)
 - Salmonella PCR
 - Fecal culture
 - Salmonella serovar typing at NVSL if isolated
 - E. coli PCR for toxin and virulence gene identification if isolated
- Antibiotic susceptibility testing and/or C.perfringens typing PCR can be added for an additional cost

Bovine Syndromic Panels

Bovine Biosecurity Serology Panel (\$109)

- Bovine leukemia virus (BLV) ELISA
- Johne's Disease ELISA
- Anaplasma marginale cELISA
- Mycoplasma bovis ELISA
- Lepto titers (5 serovars)
- Histophilus somni titers
- Mannheimia haemolytica titers
- Infectious bovine rhinotracheitis (IBR) VN
- Parainfluenza 3 (PI-3) VN
- Bovine respiratory syncytial virus (BRSV) VN
- Bovine viral diarrhea (BVD) 1a VN
- Bovine coronavirus VN
- BVD antigen capture ELISA

Bovine Syndromic Panels

- Bovine B4 Export Panel (\$45)
 - Bovine viral diarrhea virus (BVDV) qPCR
 - Bovine leukemia virus (BLV) qPCR
 - Bovine herpesvirus-1 (IBR/BHV-1) qPCR
 - Bluetongue virus (BTV) qPCR

Bovine Syndromic Panels

- Bovine BRD Serology

- Basic (\$42)

- Histophilus somni, Mannheimia haemolytica, infectious bovine rhinotracheitis virus, parainfluenza 3, bovine respiratory syncytial virus, bovine viral diarrhea 1a

- Comprehensive (\$58.50)

- Basic tests + Mycoplasma bovis ELISA, bovine coronavirus VN

Bovine Syndromic Panels

Other BRD tests:

- BRD Viral qPCR Multiplex (\$45)
 - BVD, BPI-3, BHV-1, BRSV

Coming soon...

- BRD Bacterial qPCR Multiplex
 - M.bovis, M.haemolytica, P.multocida, H.somni, T.pyogenes
- BRD Comprehensive qPCR Panel
 - Viral + Bacterial qPCR multiplexes
- Bovine BRD Tissue Panel

2017 TVMDL Projects

- New Pathologist at Amarillo Lab
- TVMDL 50th year website
- TVMDL App
- Website Updates
- Shipping Updates
- Syndromic Panels
- **New TVMDL Tests**

BVD Pooled Ear Notch PCR

- 3mm ear notches, labelled individually
- Fresh and dry (no transport media)
 - Ship on cold packs, overnight
 - 12 oz plastic tubes available from TVMDL
- qPCR on pools (up to 24 animals/pool)
 - Complimentary confirmatory individual antigen capture ELISA on positive pools
- \$30 for first 2 to 10 samples
 - \$2.50 for each additional animal

Bovine Clinical Pathology Profiles

- Ruminant Chemistry Profile (\$15)
 - Now includes Glutamate Dehydrogenase (GLDH)
 - Used to diagnose liver disorders & assess severity of damage to hepatocytes, correlates with SDH
- Ruminant Electrolyte & Macromineral Profile (\$5.50)
 - Calcium, Phosphorus, Magnesium, Sodium, Potassium, Chloride
- Ruminant Energy Profile (\$8.50)
 - Beta-hydroxybutyrate, NEFA, blood glucose
- Bovine Liver Profile (\$5.50)
 - GGT, AST, GLDH, NEFA, Cholesterol, NEFA:Cholesterol, total bilirubin, triglycerides

Bovine Herd Metabolic Profiles

- Herd level diagnostics
- Minimum of 8 animals per profile
- Clinically normal representatives of the group
- Mean calculation spreadsheets generated for profiles with 10+ animals
 - Include reference means
- Heifers and cows should be profiled separately
- Separated by stage of production

Bovine Herd Metabolic Profiles

- Transitional (\$12/animal)
 - Calcium, Phosphorus, Magnesium, Albumin, BUN, Glucose, Cholesterol, Sodium, Potassium, Chloride, *Non-esterified Fatty Acids, NEFA:Cholesterol, Beta-hydroxybutyrate*
- Lactating (\$10/animal)
 - Transitional profile without *NEFA & NEFA:Cholesterol*
- Dry (\$10/animal)
 - Transitional profile without *Beta-hydroxybutyrate*

Direct Smegma Trich PCR

- You tube video (4:32)
- TVMDL Channel Nov 30, 2017



Collecting Trich samples using in-pouch and direct PCR methods

Equine Diarrhea Fecal Panels

- Foal to 4 months (\$139)
 - Fecal culture
 - Antimicrobial susceptibility testing
 - Salmonella qPCR
 - Clostridium difficile toxin A&B ELISA
 - Clostridium perfringens toxin ID PCR
 - EM for Equine rotavirus/coronavirus

Equine Diarrhea Fecal Panels

- Weanling to yearling (\$151)
 - Fecal culture
 - Antimicrobial susceptibility testing
 - Salmonella qPCR
 - Clostridium difficile toxin A&B ELISA
 - Clostridium perfringens toxin ID PCR
 - Lawsonia intracellularis PCR
 - McMaster's EPG

Equine Diarrhea Fecal Panels

- Adult (\$151)
 - Fecal culture
 - Antimicrobial susceptibility testing
 - Salmonella qPCR
 - Clostridium difficile toxin A&B ELISA
 - Clostridium perfringens toxin ID PCR
 - EM for Equine coronavirus
 - McMaster's EPG

Future TVMDL Projects

- Update App
 - Educational Library
 - Retrieve test results
- Continue Educational Library resources
- Continue Syndromic Panel development
- Syndromic Testing Recommendations
- Syndromic and General Necropsy Guidelines
- LIMS Update
- TVMDL Amarillo moving to Canyon, TX

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

Questions?



Terry Hensley MS, DVM
Equine/Wildlife



Cheryl Maguire, DVM
Companion Animals



Guy Sheppard, DVM
Livestock Species
Management



Jessie Monday, DVM, MS
Food & Fiber Species
Internal Medicine

TEXAS A&M
TVMDL
VETERINARY MEDICAL
DIAGNOSTIC LABORATORY