

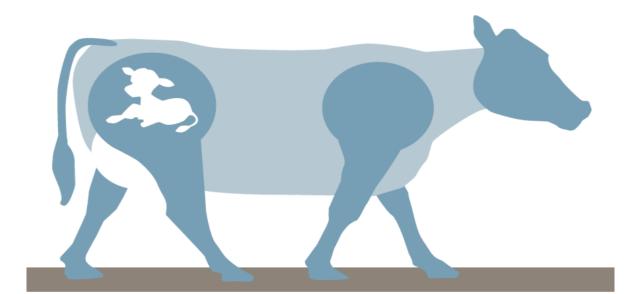
# Alertys OnFarm Pregnancy

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### Agenda

# IDEXX Alertys™



# Pregnancy Tests

- Who is IDEXX?
- Pregnancy Associated Glycoproteins (PAGs)
- Alertys product family
- IDEXX Alertys™ OnFarm pregnancy test







### IDEXX Livestock, Poultry, and Dairy global operations

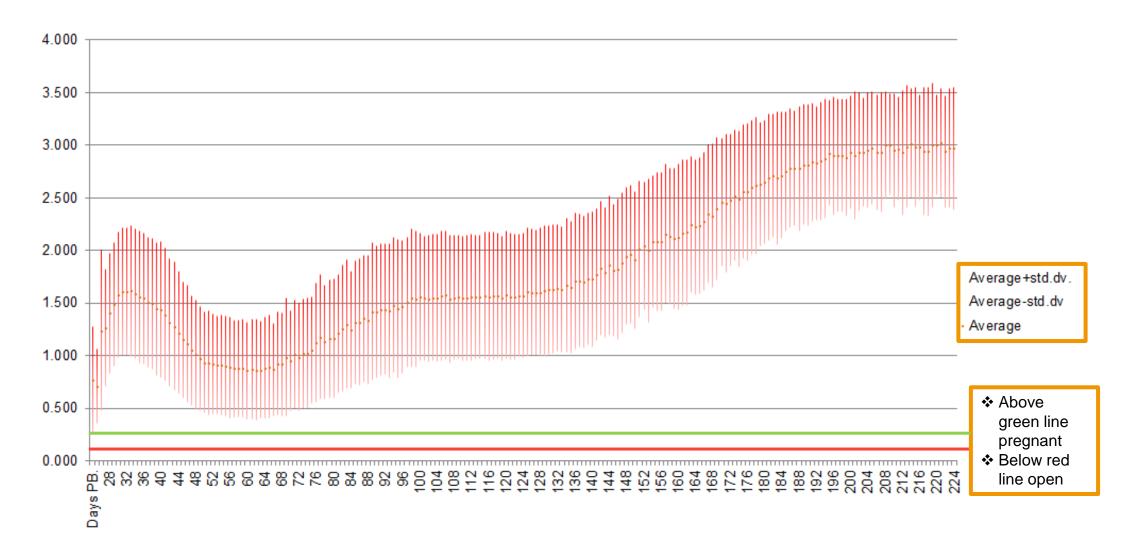


# What do Alertys Pregnancy tests measure? Pregnancy Associated Glycoproteins (PAGs)

- PAGs belong to Aspartic Peptidase class. They are divided into Ancient & Modern groups.
- PAGs are expressed by placental trophoblast cells. All ruminant placentas have trophoblast cells.
- ❖ There are at least 26 unique cow PAGs. Number of PAGs have been cloned from goat, sheep, giraffe, bison, deer, boar and buffalo
- ❖ The biological significance of PAG is unknown. However, PAGs have been successfully used as pregnancy marker.



### PAG-VALUES (S-N)

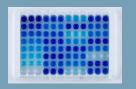


## IDEXX's Alertys portfolio offers multiple sample-based pregnancy testing solutions

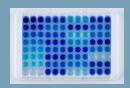
# Alertys™

Establish a low stress protocol for reproductive efficiency

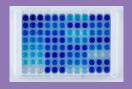
**Alertys ELISA Milk Test** 



**Alertys ELISA Blood/serum Test** 



Alertys ELISA Rapid Visual Test



NEW! Alertys OnFarm



NEW for US: IDEXX Bovine Labs Service



#### Species: Dairy Cattle, Sheep, Goats, Water Buffalo

- Laboratory set up
- Milk sample
- ELISA lab Equipment
- · Accurate results
- Easy to sample in routine of milking

Species: Dairy & Beef Cattle,

Sheep, Goats, Water Buffalo, Bison

- Laboratory set up
- Blood sample
- ELISA lab Equipment
- Accurate results
- More testing possibilities per sample (eg. genomic test)

#### Species: Dairy & Beef Cattle, Sheep, Goats, Water Buffalo, Bison

- Primarily for Veterinarian clinics
- Blood sample
- · Accurate results
- Easy to read results with visual color differences

#### Species: Dairy & Beef Cattle

- Easy result interpretation
- Lateral flow POC test for blood samples
- FAST results in 20min or less
- Ease of use certified by test trials with producers
- · Preformed anywhere

#### **Species: Dairy & Beef Cattle**

- · Outsourced lab services
- Next Day Results
- Blood or Milk sample
- Accurate results
- Scalable testing possibilities per sample (ex. genomic test)

**Customers: Laboratories** 

**Customers: Labs, Producers and Veterinarians** 



## Comparative reference

Sensitivity and specificity: overview of current pregnancy diagnostic options

Alertys <sup>™</sup> and other tests	Sensitivity (95% CI)	Specificity (95% CI)
Alertys™ Milk Pregnancy Test  Validation report	<b>98.7%</b> n = 1,839	<b>94.4%</b> n = 1,839
Alertys™ Ruminant Pregnancy Test  Validation report	<b>99.3%</b> n = 810	<b>93.8%</b> n = 810
Alertys <sup>™</sup> RVPT Pregnancy Test Validation report whole blood	<b>99.1%</b> (96.5-99.9) 28 >105 DPB n=220	<b>95.0%</b> (89.2-97.9) DPC >60 n=120
Alertys <sup>™</sup> OnFarm Pregnancy Test Validation report whole blood	<b>99.7%</b> n=290	<b>98.1%</b> DPC <u>&gt;</u> 70 n=80
Transrectal ultrasound on a dairy farm Fosgate 2017	<b>77.8%-90.5%</b> n=1165 cows	<b>94.7%-99.8%</b> n=1165 cows

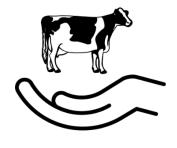
# Alertys OnFarm Preg Test Instructional Video

Test with Confidence

## Common Questions for Alertys OnFarm Preg Testing

- Where do you draw the blood at?
  Tail is the easiest and best option in the field. Although blood can be drawn from any vein or artery (jugular, mammary, etc.)
- Will the test tell how far along the pregnancy is?
  For example: 4 months, no. It is only a qualitative test; results are only pregnant or open.
- How many days after breeding will the test detect pregnancy? Kit can detect pregnant cows from day 28 until the end of gestation.
- Can you detect pregnancy at 30 days?
   Yes, from 28 days until the end of the pregnancy.
- Temperature sensitive?
   Ideally used between 59F-86F
- Other materials needed?
   Customers will need EDTA blood collection supplies including needle, EDTA tube (purple top), and holder. Some producers will want to use a syringe/needle instead of a blood collection needle/holder.

## Benefits of Alertys Sample-Based Pregnancy Testing



Less handling, less stress for the cows and employees



Streamlined employee training and improved safety



Open cow detection throughout gestation



Improve reproductive performance



Thank you for participating!

