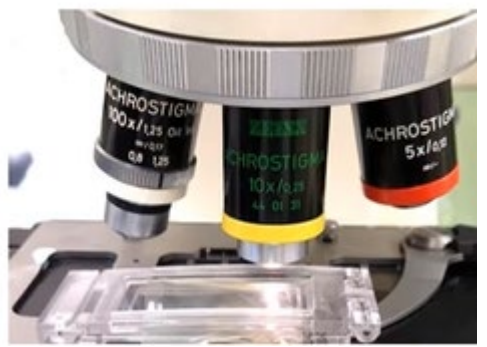


CULTURE and qPCR are the two methods used to sample for *T. foetus*

What are they and how do they compare?

Culture vs PCR

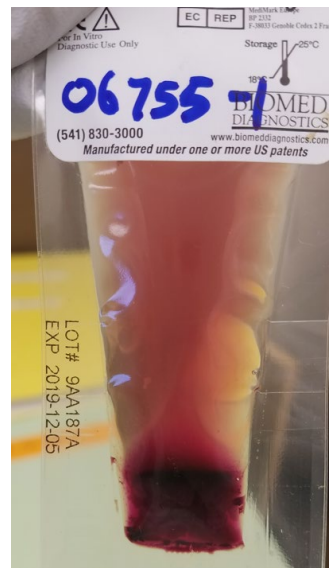
Culture relies on **visual identification**



Can you find one of THESE  in these pouches?

Heavy debris is common
Difficult to see trich under microscope

Heavy bacterial loads can easily kill and degrade trich

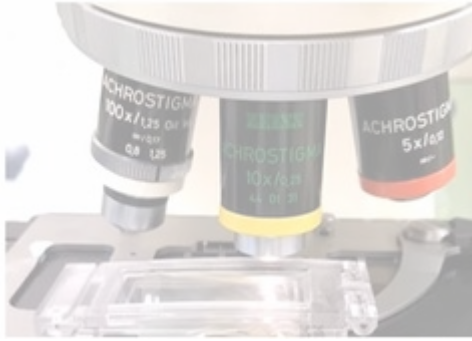


Informal ISDA tests have found that lab trich cultures will perish in 1-3 days when inoculated into real-world (previously collected) sample pouches

Temperatures too cold or too hot kill the cultures



Culture relies on visual identification



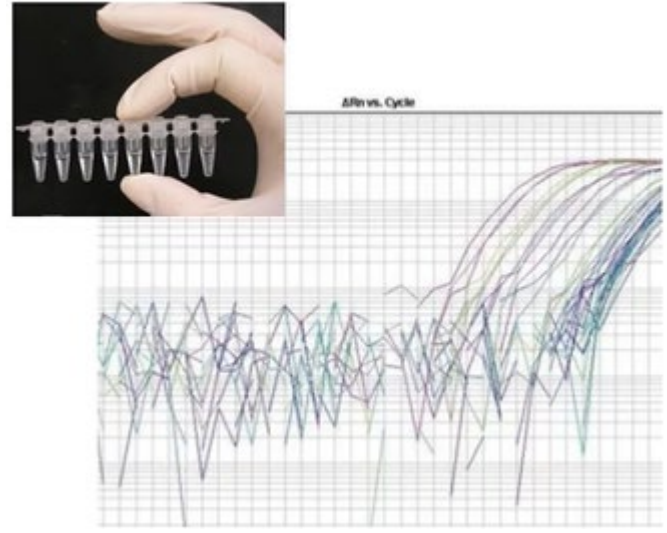
Culture vs PCR

qPCR relies on DNA detection

- Standardized, well-established
- Contains internal controls
 - Does a sample need to be redrawn?
- Known numerical values for positive, negative, or suspect

Can you find one of THESE  in these pouches?

- Heavy debris is common
- Difficult to see trich under microscope
- Heavy bacterial loads can easily kill and degrade trich



Informal ISDA tests have found that lab trich cultures will perish in 1-3 days when inoculated into real-world (previously collected) sample pouches

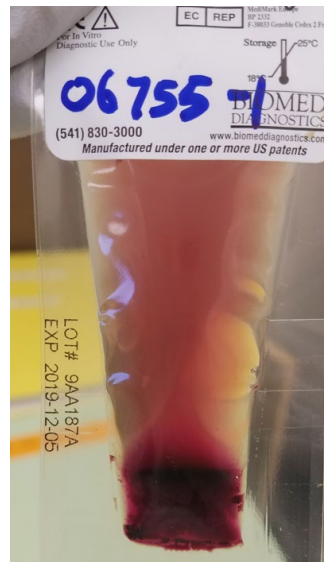
Temperatures too cold or too hot kill the cultures



Culture vs PCR

How Do They Compare?

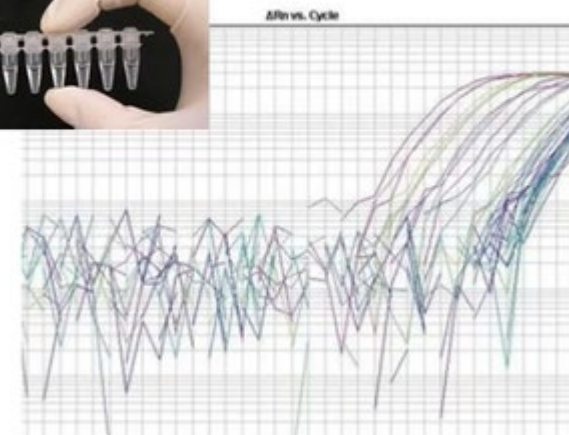
Culture



Detection rate: **21%**

Up to **45% False Negatives**

qPCR



Detection rate = **95 – 100 %**

95 – 100% sensitivity and specificity