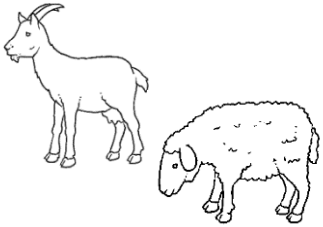


2022 round of TSE EURL EQAs: Results feed-back

20th TSE EURL/NRL Annual Meeting Rome - Italy 2 – 3 October 2023



DISCRIMINATORY WESTERN BLOT IN SMALL RUMINANTS EQA (DS22)

Laura Pirisinu

ISS - Rome



EURL-TSE

Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta – Turin

Istituto Superiore di Sanità - Rome

DISCRIMINATORY WB IN SMALL RUMINANTS EQA (DS22)

Planning

- 18 Labs** expressed interest to participate in EAQ round 2022 for Discriminatory WB in small ruminants
- Each NRL has been identified with a code (different for each EQA)
- Each round included 5 samples of frozen brainstem homogenates (50/50 mix of tissue and distilled water)
- The samples were stored at -80°C until shipment on dry ice
- All NRLs received an email (2nd November 2022) informing the imminent dispatch of samples for the 7th November 2022
- Forms for returning the results were attached (and also supplied in the box in paper format)
 - Cover Letter (instructions for performing the proficiency test, information on safety, execution times and contacts)
 - Electronic form for submitting the results
- The deadline was 9th December 2022 (1 month)

The electronic form for submitting result must be uploaded with the link:

https://docs.google.com/forms/d/e/1FAIpQLSeV7b7MFKZWii-ZbtGflow7pjqFglgpEht6l43OXe7DbpxlGw/viewform?usp=sf_link



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DISCRIMINATORY WB IN SMALL RUMINANTS EQA (DS22)

Samples dispatched

- ❑ 5 samples of frozen brainstem homogenates (50/50 mix of tissue and distilled water)
- ❑ Tested for homogeneity and stability

Sample ID	Expected results	Genotype	Sample origin/characteristics
DS2201	Classical scrapie	ARH/VRQ	Pool of classical scrapie samples from sheep
DS2202	Classical scrapie	ARH/ARQ	Pool of classical scrapie samples from sheep
DS2203	Classical scrapie	VRQ/VRQ	Classical scrapie samples from sheep
DS2204	BSE not excluded	ARQ/ARQ	Pool of samples from sheep with experimental BSE
DS2205	Classical scrapie	ARQ/VRQ	Pool of classical scrapie samples from sheep



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DISCRIMINATORY WB IN SMALL RUMINANTS EQA (DS22)

Results tabulation (sent 22/12/2022)

N° of methods used per Lab	Total
one test method	14
two test methods	4
Total participating Laboratories	17

Test method used	N° of Labs
APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	14
Bio-Rad Discriminatory Test (based on the CEA Discriminatory Western blot Method)	3
APHA Prionics-based Hybrid Western blot Method	1
FLI Discriminatory Western blot Method	1
ANSES Discriminatory Western blot Method	1
ISS Discriminatory Western blot Method	1



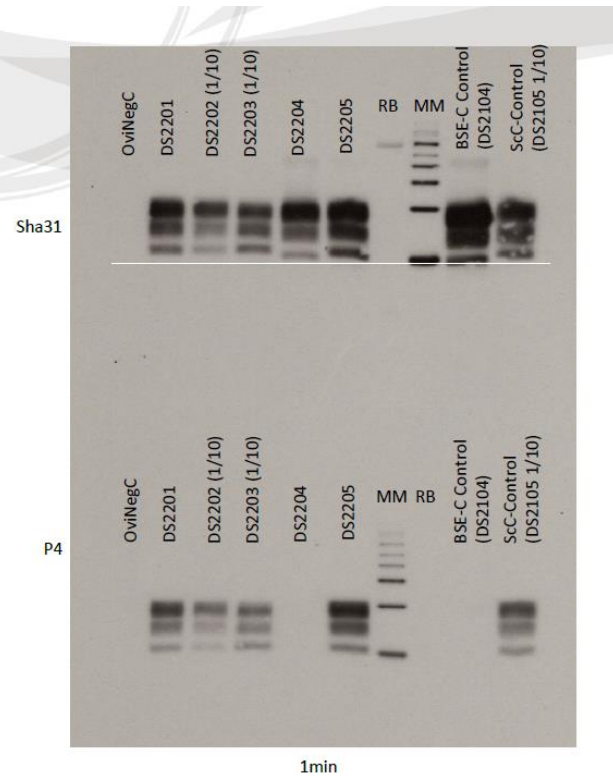
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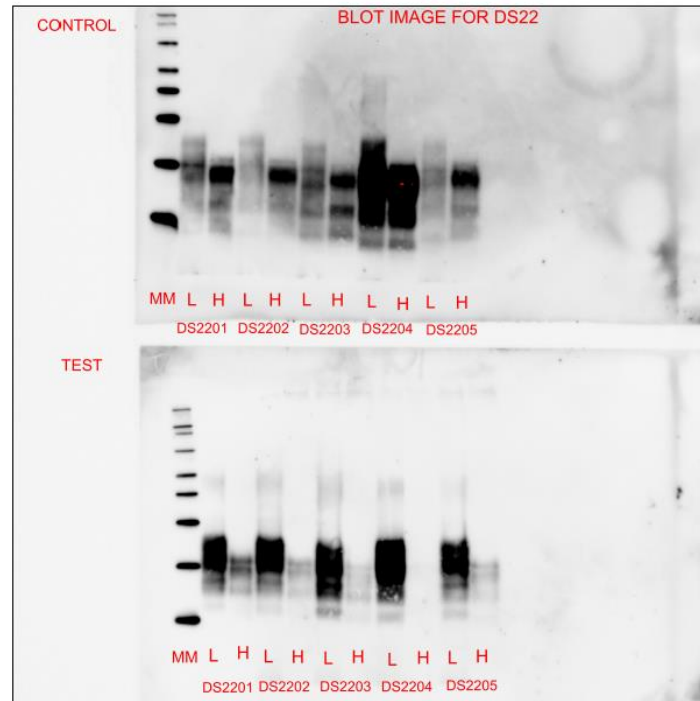
DISCRIMINATORY WB IN SMALL RUMINANTS EQA (DS22)

All Laboratories reported the correct results

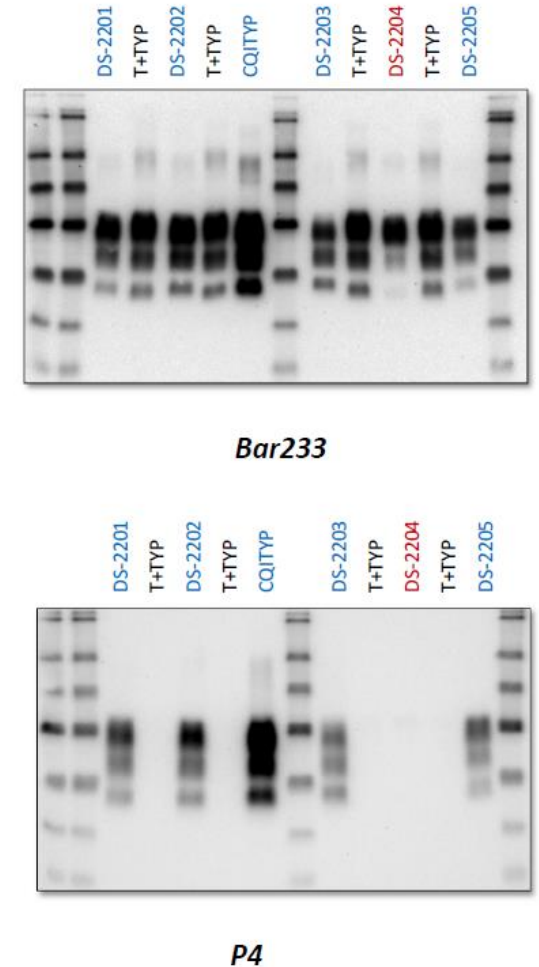
APHA Bio-Rad TeSeE-based Hybrid WB Method



Bio-Rad Discriminatory Test
(based on the CEA Discriminatory Western blot Method)



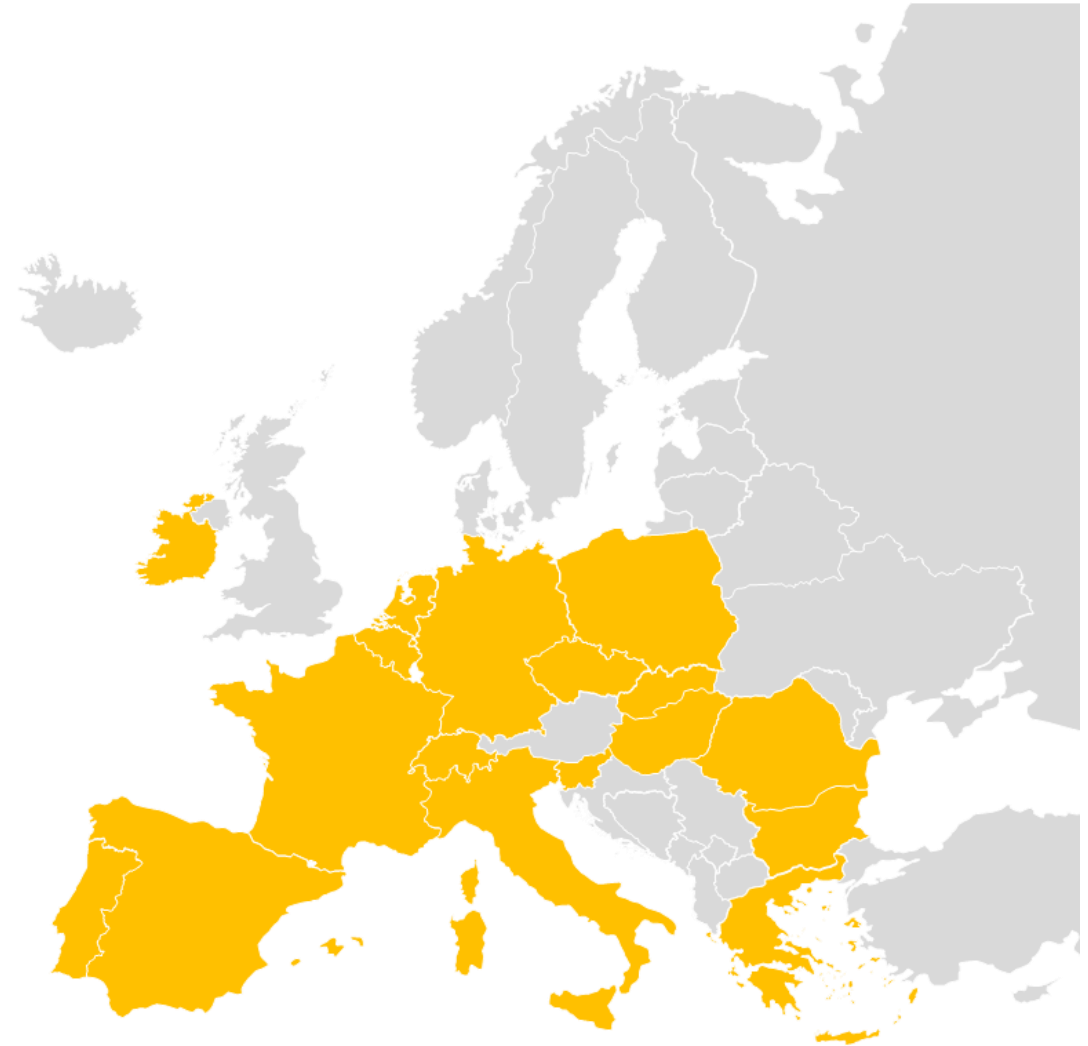
ANSES Discriminatory Western blot Method



DISCRIMINATORY WB IN SMALL RUMINANTS EQA (DS22)

All Laboratories (17) passed the PT!

- | | |
|-------------|-----------------|
| 1. Belgium | 10. Netherlands |
| 2. Bulgaria | 11. Poland |
| 3. Czechia | 12. Portugal |
| 4. France | 13. Romania |
| 5. Germany | 14. Slovakia |
| 6. Greece | 15. Slovenia |
| 7. Hungary | 16. Spain |
| 8. Ireland | 17. Switzerland |
| 9. Italy | |



WELL DONE!

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ISS

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IZPLVdA

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Elena Bozzetta
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- All participants to PTs

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