

23rd Annual Meeting of the TSE EURL

Rome 7th – 8th May 2026

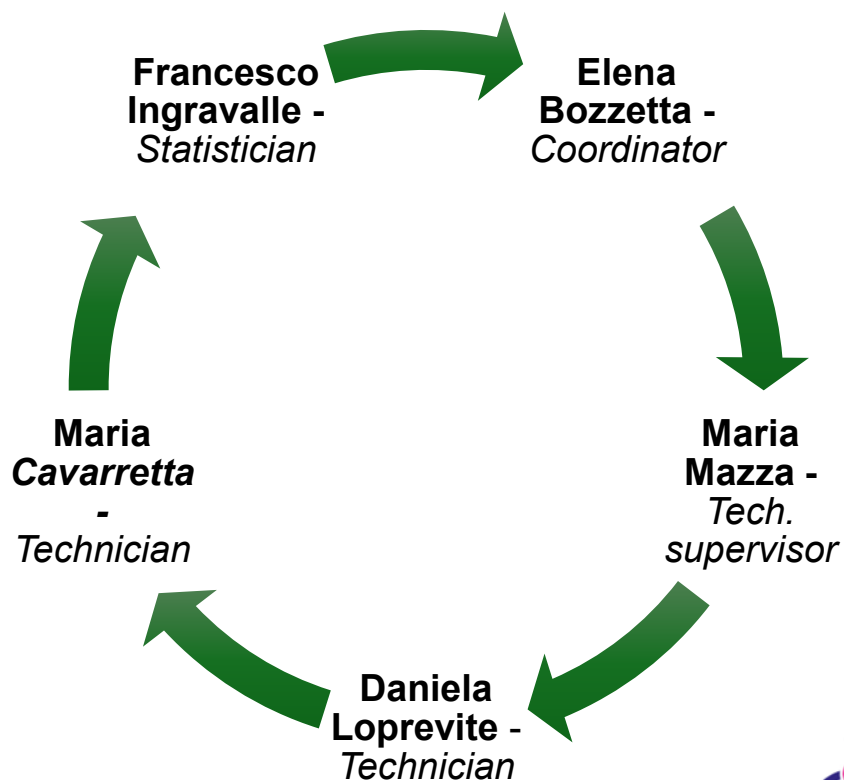
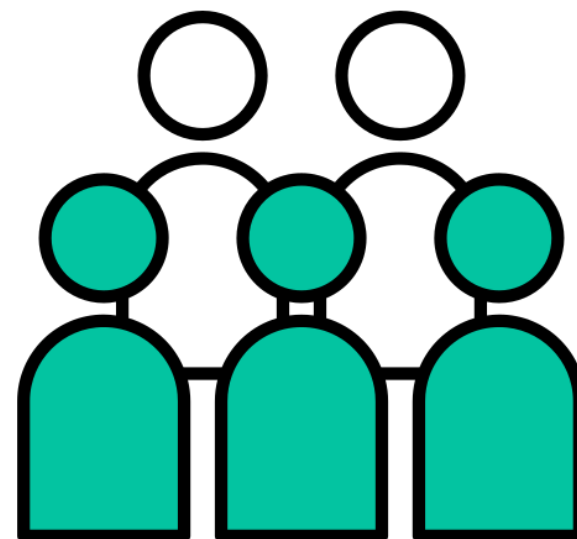


Confirmatory immunoblotting (WB & WS):
results of the 2025 round and
forthcoming 2026 round



Maria Mazza, IZSPLV - Turin

WORKING GROUP



PLANNING

WB25

WS25



Shipment
24 November 2025



Deadline on
30/12/2025



Submission results
on website



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PLANNING

Identification NRLs

- Number code for each PT

Storage samples

- -80 °C until shipment
- Transport on dry ice

Panel samples

- 5 samples for WB25 and WS25

EURL EQA round 2025



The tissue has been
homogenised using a 50/50
mix of tissue and distilled water



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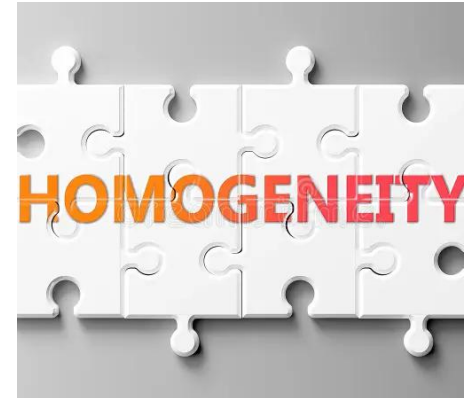
Samples preparation

Brain tissue

- Natural BSE and Scrapie cases
 - Bovine and small ruminants health
-



ISO/IEC 17043
Competency assessment – C
Requirements for proficiency



EURL EQA round 2025 Quality Control



17034
Requirements for
competence of
reference Material



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Processing of results

Elaboration of a report with the PTs results for BSE and Scrapie round

Correct results

Laboratories suitable to perform screening and confirmatory tests

Incorrect results

Report for non-compliant results



Analysis on a new set of samples



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NRLs participating in Proficiency Testing 2025

WS25 Round
**23 NRLs including UK,
Norway, Switzerland,
Iceland**





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BSE CONFIRMATORY IMMUNOBLOT SCHEME WB25



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BSE CONFIRMATORY IMMUNOBLOT SCHEME WB25

Sample No	Result
WB2501	C-positive bovine tissue homogenate
WB2502	C-positive bovine tissue homogenate
WB2503	negative bovine tissue homogenate
WB2504	negative bovine tissue homogenate
WB2505	negative bovine tissue homogenate



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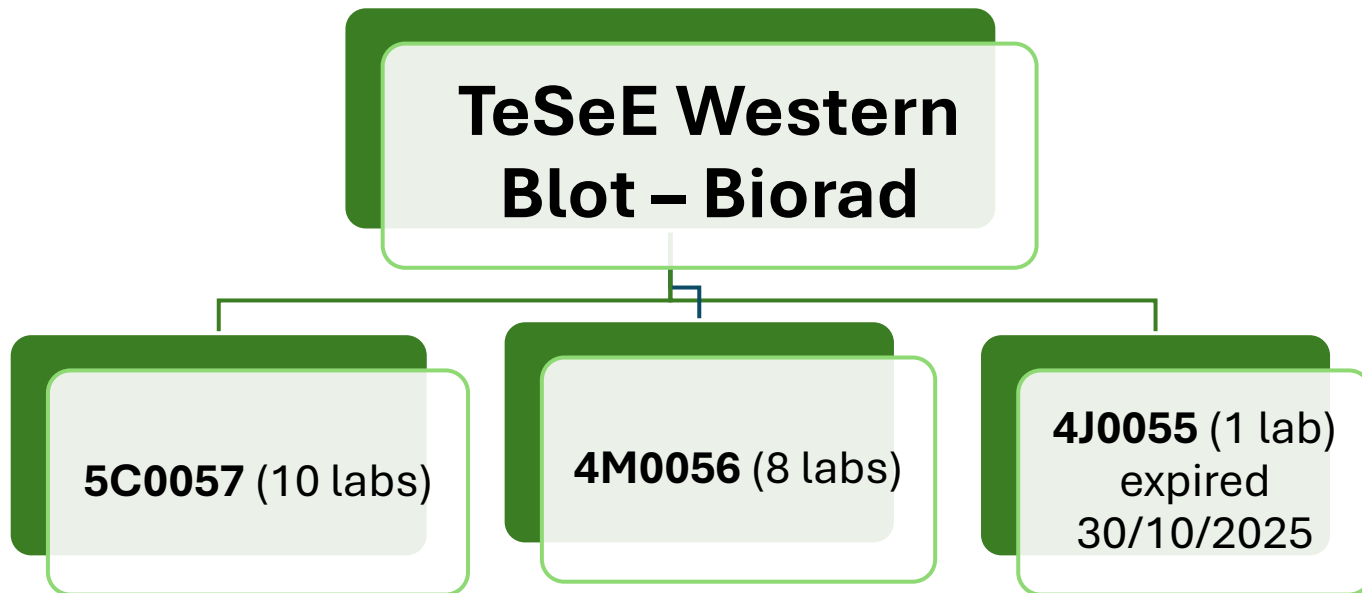
Results Tabulation for BSE Confirmatory Immunoblotting

Scheme WB25



Primary Tests	No. NRLs
TeSeE Western Blot - Bio-Rad	20
In house SAF method	1
SAF (WOAH) immunoblot	1

Results Tabulation for BSE Confirmatory Immunoblotting Scheme WB25



BSE Confirmatory Immunoblotting Scheme WB25



**ALL THE LABS
PASSED THIS
PROFICIENCY
TESTING AT THE FIRST
ROUND**

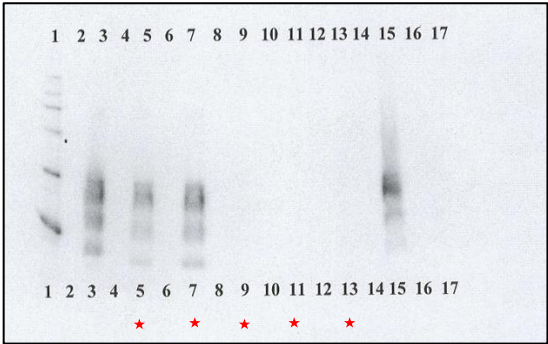


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BSE Confirmatory Immunoblotting – Scheme WB25

TeSeE WB

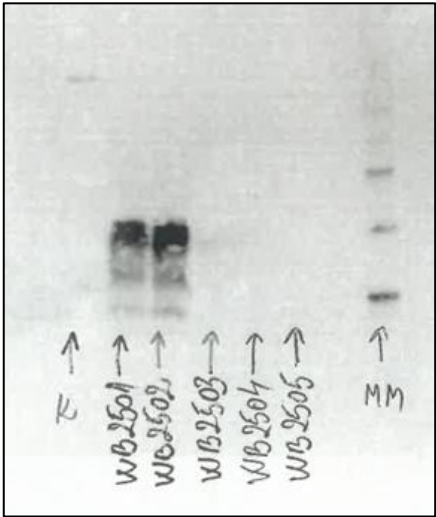


✓ Weak signals

Lab 342

Blot quality

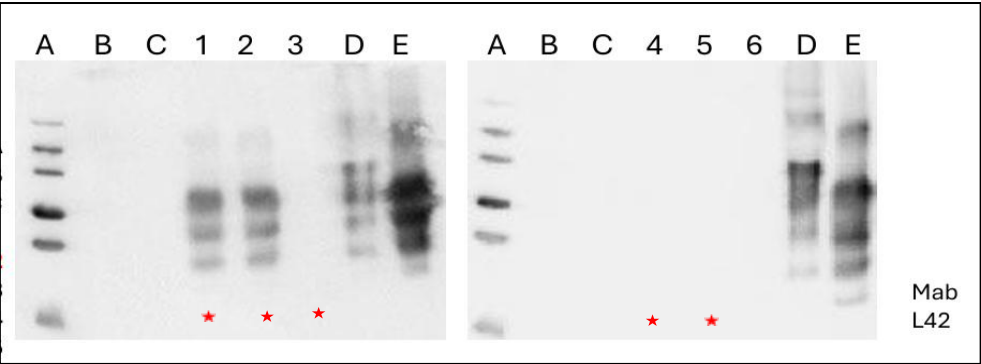
TeSeE WB



Lab 991

- ✓ Non-optimal blotting
- ✓ Non-optimal blot coverage with antibodies or chem. sub

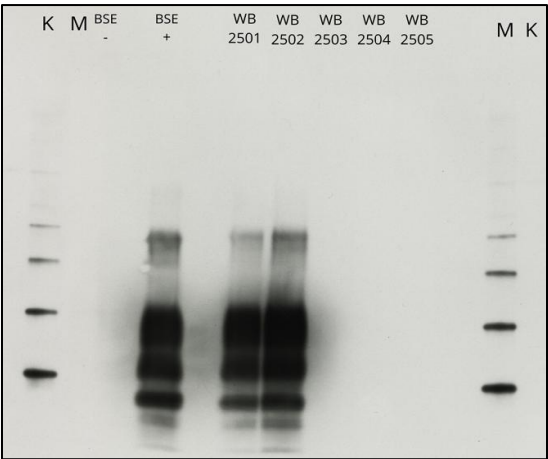
SAF-(WHOA)-Immunoblot



Mab L42

Lab 648

TeSeE WB



Lab 196



Critical issues

Laboratory 450 used TeSeE WB
kit and gel after their expiry date

No expired reagents!!!



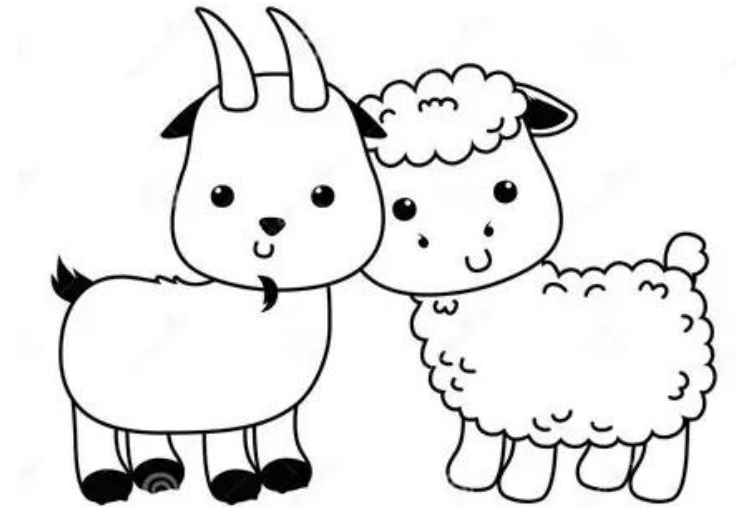
**Please fill in all the fields on the
website form!!!**





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SCRAPIE CONFIRMATORY IMMUNOBLOT SCHEME WS25



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SCRAPIE CONFIRMATORY IMMUNOBLOTTING SCHEME WS25

Sample No	Result
WS2501	negative ovine tissue homogenate
WS2502	C-Scrapie ovine tissue homogenate
WS2503	C-Scrapie ovine tissue homogenate
WS2504	C-Scrapie ovine tissue homogenate
WS2505	negative ovine tissue homogenate



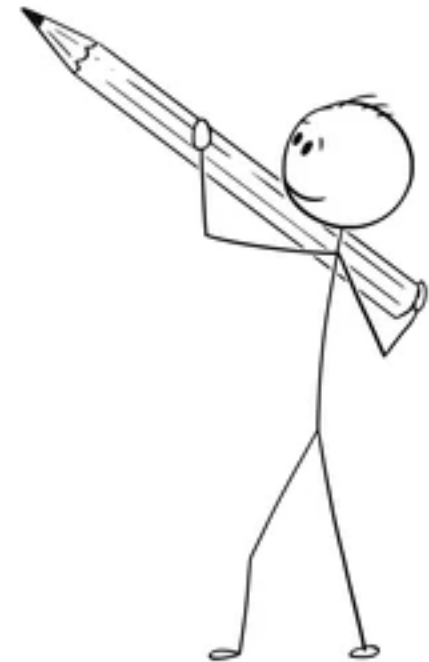
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Results Tabulation for Scrapie Confirmatory Immunoblotting

Scheme WS25

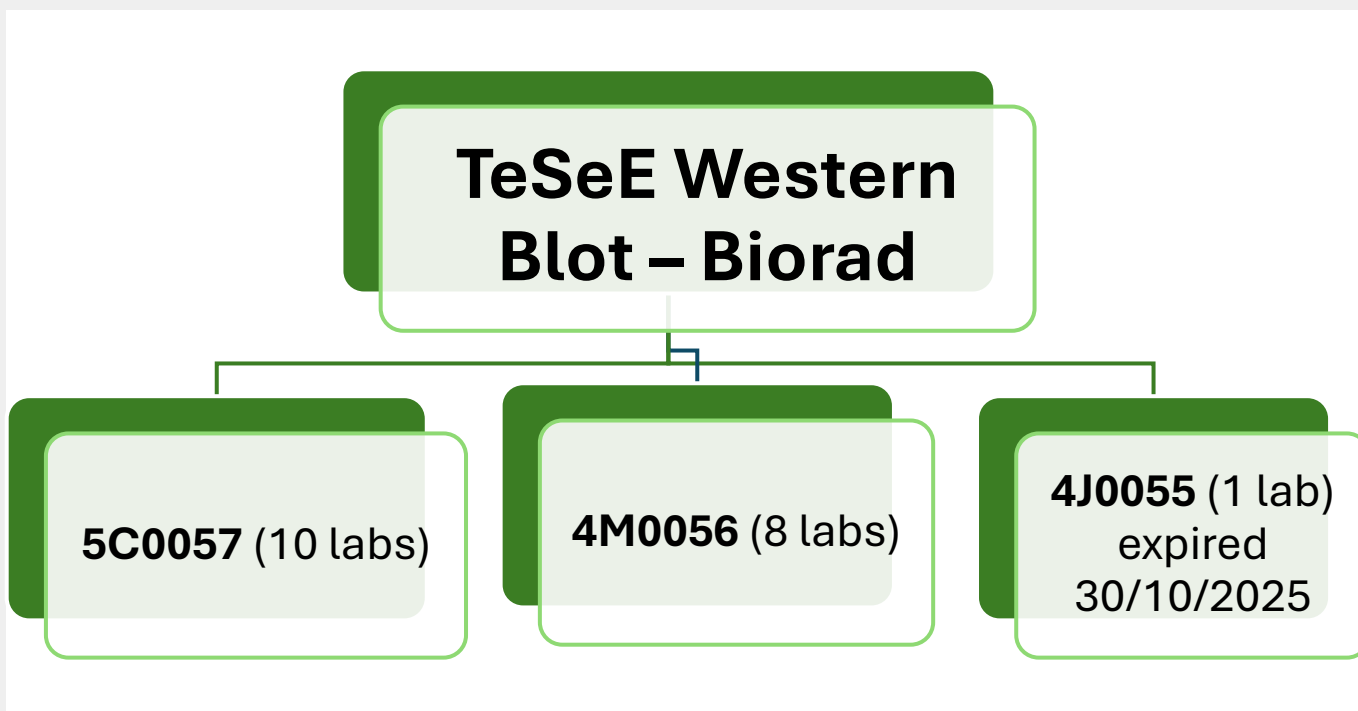
Primary Tests	N. NRL
TeSeE Western Blot – Bio-Rad	20
In house SAF method	1
SAF (WOAH) immunoblot	1
APHA Bio-Rad TeSeE-based Hybrid Western Blot	1



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Results Tabulation for Scrapie Confirmatory Immunoblotting Scheme WS25



Scrapie Confirmatory Immunoblotting Scheme WS25



**ALL THE LABS PASSED THIS PROFICIENCY TESTING
AT THE FIRST ROUND**



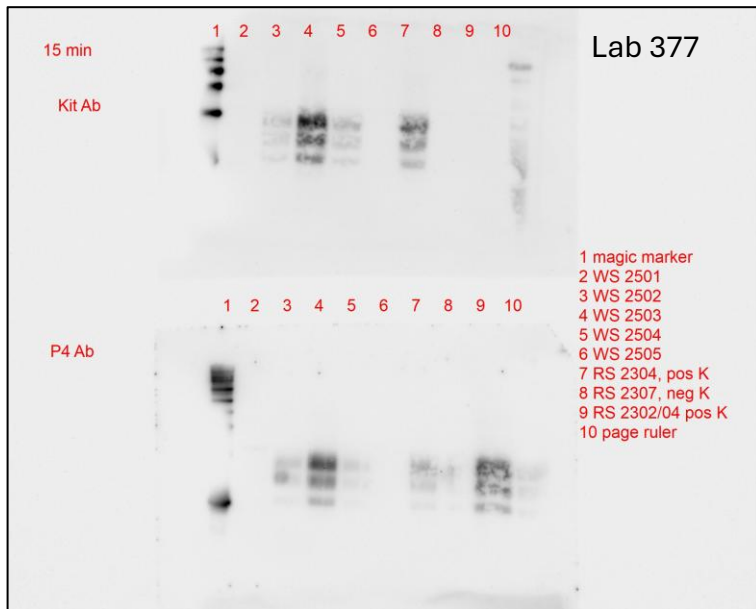
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Scrapie Confirmatory Immunoblotting – Scheme WS25

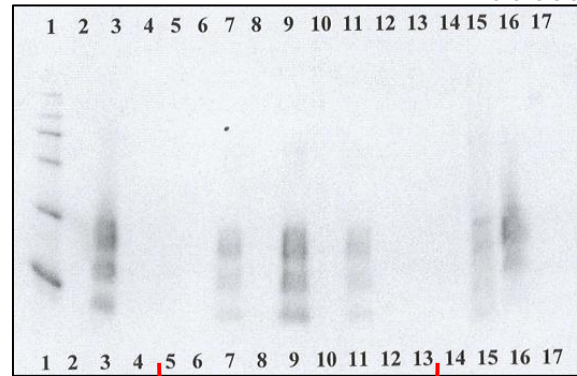
Blot quality

APHA/TeSeE WB



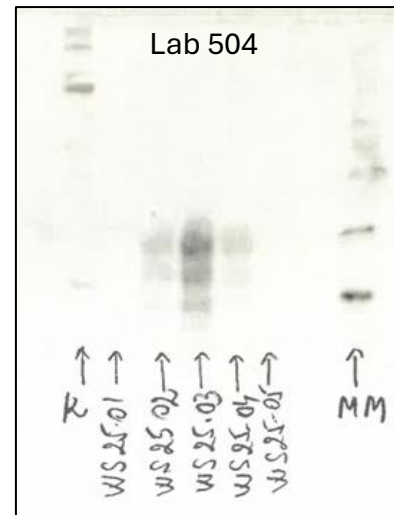
TeSeE WB

Lab 950



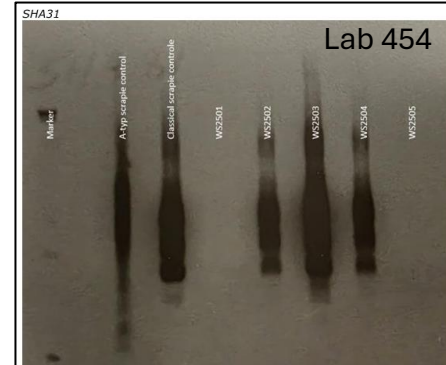
TeSeE WB

Lab 504

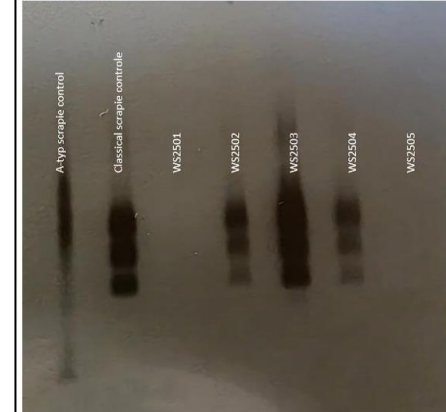


TeSeE WB

Lab 454



P4 30 seconds



High background

Critical issues

Scrapie Confirmatory Immunoblotting Scheme WS25

Laboratory 414 used TeSeE WB
kit and gel after their expiry date

No expired reagents!!!



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The forthcoming EQA 2026 rounds

Confirmatory immunoblotting for BSE and Scrapie



**The shipment of the samples is
scheduled in the last week of June
2026**



RB, RS, WB and WS will be sent all at
once



The samples will be packed with dry-ice
and the shipment will be scheduled at
the beginning of the week

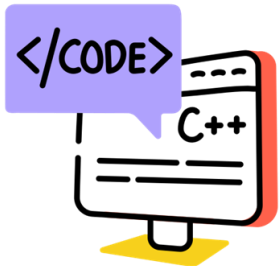


E-mail to communicate the shipment

The forthcoming EQA 2026 rounds

Confirmatory immunoblotting for BSE and Scrapie

Submission results by EURL web site



Report the correct ID code of the laboratory

Report the raw data (*pictures of the blots, readings, time exposure of pictures, kit batches*) and all information relevant to the correct interpretation of the results



The forthcoming EQA 2026 rounds

Confirmatory immunoblotting for BSE and Scrapie

PTs results

Submission within four weeks of the samples being dispatched



Presentation at the next
TSE EURL Meeting

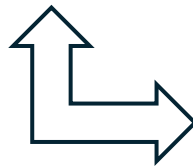


The forthcoming EQA 2026 rounds

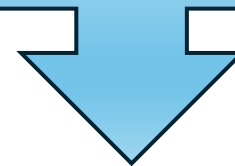
Confirmatory immunoblotting for BSE and Scrapie

PTs results

Upload results for each applied test to the Eurl website



Routine method	→	1 form
1 st alternative	→	1 form
2 nd alternative	→	1 form



Fill in all fields correctly

Indicate if the test is the one routinely applied or as a first or second alternative test





- ☐ Elena Bozzetta
- ☐ Francesco Ingravalle
- ☐ Maria Cavarretta
- ☐ Daniela Loprevite



**Thanks for your
attention!!!**

