TSE EURL
Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta – Torino
Istituto Superiore di Sanità – Roma

PROFICIENCY TESTING FOR VETERINARY LABORATORIES

Results tabulation for PT DS22: Discriminatory western blot in small ruminants

Distribution date: 07/11/2022

Lab. ID	Date of receipt	Date of testing	Test method used	Kit Manufacturer	Batch	Expiry date	Antibodies used	Batch	Expiry date
41	09/11/2022	01/12/2022	Bio-Rad Discriminatory Test (based on the CEA Discriminatory Western blot Method)	BIORAD	2C0036	02/08/2023	AbCONTROL AbTEST	2B0036	27/08/2023
118	10/11/2022	15/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Biorad	1H0048	01/01/2023	SHA 31 P4	1H0048 350315	30/01/2023 01/11/2022
176	09/11/2022	22/11/2022	APHA Prionics-based Hybrid Western blot Method	ThermoFisher Scientific	W200201G	01/10/2021	6H4 P4	W200201G45 450712	01/10/2021 01/07/2017
176*	09/11/2022	05/12/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	2C0049	12/07/2023	SHA31 P4	2B0049 450712	27/08/2023 01/07/2017
182	08/11/2022	21/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	1H0048	01/01/2023	Sha21 P4	216 350315	31/12/2022 31/12/2022
188	08/11/2022	16/11/2022	Bio-Rad Discriminatory Test (based on the CEA Discriminatory Western blot Method)	Bio-Rad	2C0036	02/08/2023	Ab ctrl Ab Test	2C0036 2C0036	02/08/2023 02/08/2023
188*	08/11/2022	17/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	1H0048	01/01/2023	P4 Ab2(Goat anti-mouse IgG)	7491022 64498211	30/09/2024 14/07/2025
243	10/11/2022	14/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	BioRad	2C0049	12/07/2023	Ab I TeSeE Western Blot mAb P4 (R-Biopharm)	2B0049 350315	27/08/2023 14/07/1905
243*	10/11/2022	16/11/2022	Bio-Rad Discriminatory Test (based on the CEA Discriminatory Western blot Method)	BioRad	2C0036	02/08/2023	Ab Ctrl Discriminatory Kit Ab Test Discriminatory Kit	2B0036 2B0036	27/08/2023 27/08/2023
287	11/11/2022	16/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	1H0048	01/01/2023	SHA31 mAbP4	1H0048 R8007	01/01/2023 01/11/2022
341	10/11/2022	14/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	2C0049	12/07/2023	P4	350315	01/06/2022
366	10/11/2022	18/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	1H0048	01/01/2023	P4 Sha31 Goat anti-mouse IgG (H+L)-HRP	350315 64403983	01/06/2022 02/03/2024
565	10/11/2022	15/11/2022	FLI Discriminatory Western blot Method	In House	Not relevant	Not relevant	Mab L42 P4	In House	Not relevant
601	09/11/2022	09/11/2022	ISS Discriminatory Western blot Method	nd	nd	nd	SAF84 P4	120 350315	17/02/2023 28/06/2023
601*	09/11/2022	25/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	BIORAD	2G0050	28/12/2023	sha31 P4	kit biorad 350315	28/12/2023 28/06/2023
910	10/11/2022	24/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	TeSeE Western Blot Biorad CEA	1H0048	01/01/2023	SHA31/AbII P4	1H0048 2390320	01/01/2023 01/07/2022
933	10/11/2022	22/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	BIO-RAD	1H0048	01/01/2023	SHA31 P4	1H0048 7491022	01/01/2023 01/09/2024
954	07/11/2022	16/11/2022	APHA bio-rad TeSeE-based Hybrid Western blotting Method	Bio-rad	2C0049	12/07/2023	Sha31	2C0049	12/07/2023
983	09/11/2022	21/11/2022	ANSES Discriminatory Western blot Method	TeSeE WB for PrPres extraction	1H0048	01/01/2023	BAR233 P4	REF P4/12	22/01/2023 27/01/2023
985	09/11/2022	18/11/2022	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Biorad	1H0048	01/01/2023	Sha31 P4	1H0048 7491022	30/01/2023 01/09/2024
993	09/11/2022	21/11/2022	APHA BIO-RAD TeSeE-based Hybrid Western Blot Method	BIO-RAD	1H0048	01/01/2023	SHA31 P4	1H0048 7491022	01/01/2023 01/09/2024

***1st alternative test**

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Sample ID	DS2201		DS2202		DS2203		DS2204		DS2205	
Intended	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
Lab. ID	Result	Comments	Result	Comments	Result	Comments	Result	Comments	Result	Comments
41	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
118	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
176	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
176*	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
182	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
188	classical scrapie		classical scrapie	1:9 dilution with negative samples	classical scrapie	dot blot working dilution 1:2 in both low and high conditions	BSE not excluded		classical scrapie	
188*	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
243	classical scrapie		classical scrapie		classical scrapie		BSE not excluded	Lower weight of the unglycosylated band with SHA31 mAb and signal reduction with P4 mAb	classical scrapie	
243*	classical scrapie		classical scrapie		classical scrapie		BSE not excluded	With control Ab, lower weight of the unglycosylated band. With test Ab, signal reduction with the high concentration.	classical scrapie	
287	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
341	classical scrapie	Sha31: +++, classical profile, deglycosylated band high; P4: +++	classical scrapie	Sha31: +++, classical profile, deglycosylated band high; P4: +++	classical scrapie	Sha31: +++, classical profile, deglycosylated band high; P4: +++	BSE not excluded	Sha31: +++, classical profile, deglycosylated band low; P4: -	classical scrapie	Sha31: +++, classical profile, deglycosylated band high; P4: +++
366	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
565	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
601	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
601*	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
910	classical scrapie	2,65	classical scrapie	>3,500; Dil 1/10 2,2051	classical scrapie	>3,500; Dil 1/10 1,807	BSE not excluded	1,004	classical scrapie	3,306
933	classical scrapie		classical scrapie		classical scrapie		BSE not excluded	Lower molecular mass migration with SHA31 compared to ovine classical scrapie and very week signal with P4	classical scrapie	
954	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
983	classical scrapie		classical scrapie		classical scrapie		BSE not excluded		classical scrapie	
985	classical scrapie		classical scrapie		classical scrapie		BSE not excluded	Strong signal with mAb SHA31. Very weak signal with mAb P4.	classical scrapie	
993	classical scrapie	three bands	classical scrapie	three bands	classical scrapie	three bands	BSE not excluded	three bands/no signal	classical scrapie	three bands

*1st alternative test

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Comments :

Comments provided by Clarissa Ferreri, Istituto Superiore di Sanità - Rome

The participants reported all samples as the intended results.

Laboratory **954** didn't report the correct definition of method used. The laboratory was asked to provide detailed information. Data provided was satisfactory and test method updated in the table.

Laboratory **993** declared, as 1st alternative test method, a rapid test method. The laboratory added it, not as alternative test, but just as additional measurement data and they only use the APHA Bio-Rad TeSeE-based Hybrid WB method for Discriminatory Western Blot testing.

Conclusion:

All the laboratories passed this PT round successfully.

Please remember that discriminatory testing must be performed following the protocols and the procedures as reported in the Technical handbook.

Date: 19 December 2022

Giuseppe Ru, TSE EURL Director