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 DS20: Discriminatory western blot in small ruminant

Distribution date: 07/12/2020

Lab. ID	Date of receipt	Date of testing	Test method used	Kit Manufacturer	Batch	Expiry date	Antibodies used	Batch	Expiry date
041	09/12/2020	29/01/2021	Bio-Rad Discriminatory Test (based on the CEA Discriminatory Western blot Method)	BIORAD	0C0034	26/08/2021	CONTROL Ab	0C0034	02/09/2021
							TEST Ab	0C0034	02/09/2021
118	08/12/2020	22/12/2020	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	0C0045	29/07/2021	P4	2620317	feb-21
							HRP	64164869	09/01/2021
176	08/12/2020	04/01/2021	APHA Prionics-based Hybrid Western blot Method	Thermo Fischer Scientific	W200101G	31/01/2021	6H4	W200101G45	31/01/2021
							P4	450712	01/07/2017
182	07/12/2020	13/01/2021	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	8C0038	15/10/2021	Sha31	04/01/2021	31/12/2021
							P4	04/01/2021	31/12/2021
188	11/12/2020	13/01/2021	Bio-Rad Discriminatory Test (based on the CEA Discriminatory Western blot Method)	Bio-Rad	OC0034	26/08/2021	Ab ctrl	OC0034	26/08/2021
							Ab test	OC0034	26/08/2021
188*		15/01/2021	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	OC0045	29/07/2021	P4	R8008	01/09/2017
							Ab2 (Goat anti-mouse IgG)	6421780	15/08/2021
287	08/12/2020	17/12/2020	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio Rad TeSeE Western Blot	0C0045	2021.07.29	P4	2620317	2,2021
							AB II	0C0045	01.09.2021
341	08/12/2020	21/12/2020	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	0C0045	29/07/2021	P4	2620317A	31/08/2021
352	10/12/2020	11/01/2021	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	BIO-RAD	0C0045	29/07/2021	SHA31	0C0045	29/07/2021
							P4	2390320	31/07/2022
352*		02/02/2021	FLI Discriminatory Western blot Method	In House	Not applicable	Not applicable	L42	7750818	29/07/2021
							P4	2390320	31/07/2022
357	09/12/2020	20/01/2021	APHA BioRad TeSeE-based Hybrid Western Blotting Method	TeSeE Western Blot BioRad - CEA	0C0045	29/07/2021	AbI / AbII	0C0045	29/07/2021
							P4	2620317	feb-19
366	08/12/2020	11/12/2020	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	0C0045	27/07/2021	P4	2620317	feb-19
							Sha31	64188797	10/04/2021
469	10/12/2020	17/12/2020	APHA Prionics-based Hybrid Western blot Method	Prionics	W190101G	13/05/2020	6H4	W190101G45	13/05/2020
							P4	2620317A	August 2021
469*		22/12/2020	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	0C0045	29/07/2021	Sha31	0C0045	29/07/2021
							P4	2620317A	August 2021
469**		19/01/2021	Bio-Rad Discriminatory Test (based on the CEA Discriminatory Western blot Method)	Bio-Rad	0C0034	26/08/2021	Control	0C0034	02/09/2021
							Test	0C0034	02/09/2021
565	08/12/2020	15/12/2020	FLI Discriminatory Western blot Method	In House	Not applicable	Not applicable	Mab L42/Mab P4	In House	Not applicable
601	07/12/2020	07/01/2021	ISS Discriminatory Western blot Method	/	/	/	SAF84	119	17/03/2021
							P4	2390320	31/07/2022
933	08/12/2020	21/01/2021	APHA Prionics-based Hybrid Western blot Method	Prionics (Applied Biosystems)	W200101G	31/01/2021	6H4	W200101G	31/01/2021
							P4		
954	10/12/2020	28/01/2021	APHA Prionics-based Hybrid Western blot Method	Thermofisher	W200101G	31/01/2021	6H4	W200101G	31/01/2021
							P4	NA	NA
983	08/12/2020	11/01/2021	ANSES Discriminatory Western blot Method	TeSeE WB for extraction	0C0045	29/07/2021	BAR233	REF	22/01/2023
							P4	P4/12	27/01/2023
985	09/12/2020	30/12/2020	APHA Prionics-based Hybrid Western blot Method	Prionics	W200101G	31/01/2021	6H4	W200101G55	31/01/2021
							P4		2021-08
995	08/12/2020	29/07/2021	APHA Bio-Rad TeSeE-based Hybrid Western blotting Method	Bio-Rad	OC0045	29/07/2021	Kit plus P4	C12932	28/04/2025

**1st alternative test **2nd alternative test

PROFICIENCY TESTING FOR VETERINARY LABORATORIES

Results tabulation for PT DS20: Discriminatory western blot in small ruminant

Distribution date: 07/12/2020

Lab. ID	Sample No.	Result	Comments	Sample No.	Result	Comments	Sample No.	Result	Comments	Sample No.	Result	Comments	Sample No.	Result	Comments
41	DS2001	CLASSICAL SCRAPIE		DS2002	CLASSICAL SCRAPIE		DS2003	BSE-LIKE		DS2004	CLASSICAL SCRAPIE		DS2005	CLASSICAL SCRAPIE	
118	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
176	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded	6H4 > P4	DS2004	classical scrapie		DS2005	classical scrapie	
182	DS2001	classical scrapie	reactivity with Sha31 and P4	DS2002	classical scrapie	reactivity with Sha31 and with P4	DS2003	BSE not excluded	reactivity with Sha31, but not with P4	DS2004	classical scrapie	reactivity with Sha31 and P4	DS2005	classical scrapie	reactivity with Sha31 and P4
188	DS2001	classical scrapie	Dot Blot-working dilution : 1/4 low condition and 1/2 high condition	DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
188*	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
287	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
341	DS2001	classical scrapie	Sha31: ++++, classical profile, deglycosylated band high; P4: ++++	DS2002	classical scrapie	Sha31: +++, classical profile, deglycosylated band high; P4: +++	DS2003	BSE not excluded	Sha31: ++++, classical profile, deglycosylated band low; P4: -	DS2004	classical scrapie	Sha31: ++++, classical profile, deglycosylated band high; P4: ++++	DS2005	classical scrapie	Sha31: ++++, classical profile, deglycosylated band high; P4: ++++
352	DS2001	three bands	Classical scrapie	DS2002	three bands	Classical scrapie	DS2003	three bands/no signal	BSE like positive	DS2004	three bands	Classical scrapie	DS2005	three bands	Classical scrapie
352*	DS2001	three bands	Classical scrapie	DS2002	three bands	Classical scrapie	DS2003	three bands/no signal	BSE like positive	DS2004	three bands	Classical scrapie	DS2005	three bands	Classical scrapie
357	DS2001	Classical scrapie	Positive with both SHA31 and P4 (although with a weak signal we can see the di- and mono-glycosylated Bands)	DS2002	Classical scrapie	Positive with both SHA31 and P4 (Classical scrapie profile)	DS2003	Ovine BSE	Positive with SHA31 with Low molecular mass migration when compared to ovine classical scrapie. Negative with P4	DS2004	Classical scrapie	Positive with both SHA31 and P4(Classical scrapie profile)	DS2005	Classical scrapie	Positive with both SHA31 and P4 (Classical scrapie profile)
366	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
469	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
469*	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
469**	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
565	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
601	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
933	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded	lower band compared to scrapie control	DS2004	classical scrapie		DS2005	classical scrapie	
954	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
983	DS2001	classical scrapie		DS2002	classical scrapie		DS2003	BSE not excluded		DS2004	classical scrapie		DS2005	classical scrapie	
985	DS2001	classical scrapie	similar reactivity with core and N-terminal Ab, higher migration of nonglycosylated band compared to BSE control	DS2002	classical scrapie	similar reactivity with core and N-terminal Ab, higher migration of nonglycosylated band compared to BSE control	DS2003	BSE not excluded	strong reactivity with core Ab and very faint reactivity with N-terminal Ab, similar migration of nonglycosylated band compared to BSE control and lower than	DS2004	classical scrapie	similar reactivity with core and N-terminal Ab, higher migration of nonglycosylated band compared to BSE control	DS2005	classical scrapie	similar reactivity with core and N-terminal Ab, higher migration of nonglycosylated band compared to BSE control
995	DS2001	classical scrapie	Resembled classical scrapie control profile (higher molecular mass with kit antibody and signal with P4 antibody)	DS2002	classical scrapie	Resembled classical scrapie control profile (higher molecular mass with kit antibody and signal with P4 antibody)	DS2003	BSE not excluded	Resembled classical BSE control profile (Lower molecular mass with kit antibody and lack of signal with P4 antibody)	DS2004	classical scrapie	Resembled classical scrapie control profile (higher molecular mass with kit antibody and signal with P4 antibody)	DS2005	classical scrapie	Resembled classical scrapie control profile (higher molecular mass with kit antibody and signal with P4 antibody)

***1st alternative test** ****2nd alternative test**

Comments :

provided by **Gabriele Vaccari**, Istituto Superiore di Sanità - Rome

All Laboratories reported the correct result.

Laboratory **41** didn't report the correct definition of method used. The laboratory was asked to provide detailed information.
The data provided was satisfactory.

Laboratory **118** didn't report the correct definition of method used. The laboratory was asked to provide detailed information.
The data provided was satisfactory.

Laboratory **287** didn't report the date of testing, the antibody used, the correct definition of method used and complete raw data.
The laboratory was asked to provide detailed information.
The data provided was satisfactory.

Conclusion :

All the laboratories have passed this PT round

Giuseppe Ru, director of TSE EURL