



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 Scrapie Confirmatory Immunoblot - Scheme: WS20

Distribution date: 21-26-27 October 2020

BLOT	Test Method used	Kit Batch Number	Expiry Date	Gel Type	Batch	Expiry date	Positive Control result	Negative Control result	Positive Cut Off value	Method details	Sample No. WS2001			Sample No. WS2002			Sample No. WS2003			Sample No. WS2004			Sample No. WS2005		
											Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation
Intended											negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	medium positive
ID Lab.																									
895	TeSeE Western Blot BioRad	OC0045	29/07/2021	NuPage 12% Bis-Tris	19110670	06/03/2021	positive	negative	////	////	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	weak positive
645	TeSeE Western Blot BioRad	OC0045	29/07/2021	NuPAGE 12% Bis-Tris Gel	NU20012971	29/05/2021	three bands, positive	no band, negative	////	Confirmatory test based on the BIO-RAD kit. Sha31 and P4	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	strong positive
401	TeSeE Western Blot BioRad	OC0045	29/07/2021	Criterion XT 12% Bis-Tris	64316347	19/11/2020	////	////	////	Western Blot	negative	////	0	positive	0	0	positive	0	0	negative	////	0	positive	0	0
784	TeSeE Western Blot BioRad	OC0045	29/07/2021	////	////	00/01/1900	Positive	Negative	////	////	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	weak positive	negative	////	negative	positive	classical scrapie	medium positive
504	TeSeE Western Blot BioRad	OC0045	29/07/2021	BioRad-Criterion XT Mini-Protean TGX gel Biorad	64335990	03/03/2021	////	////	////	kit for confirmation of suspected TSE positive samples	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	medium positive
159	TeSeE Western Blot BioRad	OC0045	29/07/2021	12% Criterion XT Bio-Rad	64337366	11/03/2021	positive	negative	////	////	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	strong positive
363	TeSeE Western Blot BioRad	OC0045	29/07/2021		64328103	28/01/2021	OK	OK	N/A	////	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	weak positive	negative	////	negative	positive	classical scrapie	medium positive
855	TeSeE Western Blot BioRad	OC0045	29.07.2021	Criterion	64314521	20/11/2020	strong positive	negative	0	0	negative	0	negative	positive	classical scrapie	medium positive	positive	classical scrapie	medium positive	negative	0	negative	positive	classical scrapie	strong positive
214	APHA Biorad Hybrid Western Blot	OC0045	29/07/2021	Criterion	64346948	20/04/2021	Ovine classical scrapie			APHA Biorad Hybrid Western Blot	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	medium positive
164	The APHA Bio-Rad TeSeE-based Hybrid Western Blotting Method	OC0045	29/07/2021	Criterion XT	64366090	04/08/2021	POS+++ (BSE 1:10) / POS+++ (SCR 1:10)	NEG-	N/A	20201112-318.pdf	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	atypical scrapie	medium positive
112	TeSeE Western Blot BioRad	9F0044	20/11/2020	criterion	64366090	04/08/2021	COI OK, Nor98 OK	NO CONTROL	////	Protocol corresponding to the recommendation of the kit	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	strong positive
856	TeSeE Western Blot BioRad	9F0044	20/11/2020	XT CRITERION GEL	64346948	20/04/2021	////	////	////	////	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	weak positive	negative	////	negative	positive	classical scrapie	weak positive
377	TeSeE Western Blot BioRad	9F0044	20/11/2020	////	////	////	strong positive classical scrapie	negative	////	APHA Bio-Rad TeSeE-based hybrid western blot method	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	strong positive
115	TeSeE Western Blot BioRad	9F0044	20/11/2020	Geles XT PreCast Criterion 12% Bis Tris 18W	64314521	12/11/2020	Internal control positive	Internal control negative	////	PESIG/EET-10 WB confirmación	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	weak positive	negative	////	negative	positive	classical scrapie	weak positive
225	TeSeE Western Blot BioRad	9F0044	20/11/2020	In-house made	////	00/01/1900	Positive	Negative	////	////	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	0	negative	positive	classical scrapie	medium positive
950	PrioWESTERN BSE Thermo Fisher Scientific	W200101G	31/01/2021	NuPAGE Invitrogen 12%Bis-Tris	20063010	29/10/2021	positive	negative	////	////	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	medium positive
669	PCW-SLO (modified PrioWESTERN BSE)	W200101G	31/01/2021	NuPage	20030410	03/07/2021	positive	////	////	Modified digestion (PK concentration and time), verified for detection of atSc	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	strong positive
519	hybrid WB	W200101G	31/01/2021	BIS-TRIS	19090411	02/01/2021	positive	negative	N/A	Hybrid WB based on Prionics WB with concentration centrifugation using P4 antibody	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	strong positive
189	SAF western blot	Prionics W200101G	31/01/2021	NuPage	19090411	2.1.2021	Positive	Negative	////	SAF western blot	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	medium positive
673	OIE SAF Immunoblot	N/A	N/A	Self Cast Gel	N/A	N/A	Positive	Negative	N/A	OIE SAF Immunoblot (in house method)	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	strong positive

368	Immunoblotting developed in house	////	00/01/1900	Pre-cast gel Invitrogen	20091510	14/01/2022	strong positive + A-typical; + Classical	Negative	////	////	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	strong positive
454	WBVR Immunoblot	W200101G	31/01/2021	12% Bis-tris	20093070	19/01/2022		Negative	N/A	00-14-1640	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	medium positive
804	In-house WB	none	31/12/2020	BioRad TGX 12%	64267210	25/03/2025	positive	negative	N/A	BioRad TeSeE sheep and goat purification kit with 5x PK and Sha31 detection	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	weak positive

Test											Sample No. WS2001			Sample No. WS2002			Sample No. WS2003			Sample No. WS2004			Sample No. WS2005		
	Test Method used	Kit Batch Number	Expiry Date	Gel Type	Batch	Expiry date	Positive Control result	NegativeCo ntrol result	Positive Cut Off value	Method details	Result	Characterisatio n	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisati on	Interpretatio n	Result	Characterisatio n	Interpretation
Intended											negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	medium positive
ID Lab.																									
645	TeSeE Western Blot BioRad	OC0045	29/07/2021	NuPAGE 12% Bis-Tris Gel	NU20012971	29/05/2021	three bands, positive	no band, negative	////	Confirmatory test based on the BIO-RAD kit	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	strong positive	negative	0	negative	positive	classical scrapie	strong positive
363	TeSeE Western Blot BioRad	OC0045	29/07/2021	12% Criterion XT Bio-Rad	64328103	28/01/2021	////	////	na	0	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	weak positive	negative	0	negative	positive	classical scrapie	medium positive
454	TeSeE Western Blot BioRad	OC0045	29/07/2021	12% bis-tris	20093070	29/01/2022	+ A-typical; + Classical	Negative	N/A	00-14-1636	negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	0	negative	positive	classical scrapie	medium positive
214	APHA Biorad Hybrid Western Blot	OC0045	29/07/2021	Criterion	64346948	20/04/2021	Ovine classical scrapie +ve				negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	0	negative	positive	classical scrapie	medium positive
377	TeSeE SAP Bio-Rad	OC0077	22/01/2021	////	////	////	3.161	0.0057	0.216	Elisa	negative	0.016	negative	positive	2.573	strong positive	positive	2.044	strong positive	negative	0.004	negative	positive	1.909	medium positive
159	Bio-Rad TeSeE SAP IDEXX HerdChek BSE Scrapie Antigen kit	OC0077	22/01/2021	////	////	////	2,782/2,857	0,021/0,022/0,023	0.231	////	negative	0.028	negative	positive	>3,5	strong positive	positive	>3,5	strong positive	negative	0.026	negative	positive	3.401	strong positive
669	IDEXX HerdChek BSE Scrapie Antigen kit	ES082	01/06/2021	////	////	////	3,327/3,308	0,016/0,016	0.196	0	negative	0.018	negative	positive	3.333	strong positive	positive	3.244	strong positive	negative	0.021	negative	positive	3.395	strong positive
115	IDEXX HerdChek BSE Scrapie Antigen kit	BS640	12/03/2021	////	////	////	Over/over	0,016/0,006	0.191	PESIG/EET-04	negative	0,024 - 0,025	negative	positive	1,830 - 2,308	medium positive	positive	1,437 - 1,546	weak positive	negative	0,018 - 0,021	negative	positive	1,590 - 1,549	weak positive
804	In-house WB	none	31/12/2020	BioRad TGX 12%	64267210	45741	positive	negative	not applicable	BioRad TeSeE sheep and goat purification kit with 5x PK and Sha31 detection	negative	////	negative	positive	classical scrapie	medium positive	positive	classical scrapie	medium positive	negative	0	negative	positive	classical scrapie	weak positive

2nd Alternative Test											Sample No. WS2001			Sample No. WS2002			Sample No. WS2003			Sample No. WS2004			Sample No. WS2005		
	Test Method used	Kit Batch Number	Expiry Date	Gel Type	Batch	Expiry date	Positive Control result	Negative Control result	Positive Cut Off value	Method details	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation
Intended											negative	////	negative	positive	classical scrapie	strong positive	positive	classical scrapie	medium positive	negative	////	negative	positive	classical scrapie	medium positive
ID Lab.																									
645	TeSeE SAP Bio-Rad	OC0077	22/01/2021	////	////	////	2.755	0.018	0.228	Purification: NSP robot; Detection: EVOLIS Microplate System	negative	0.018	negative	positive	2.639	strong positive	positive	2.014	strong positive	negative	0.017	negative	positive	2.021	strong positive
115	TeSeE SAP Bio-Rad	OE0078	16/04/2021	////	////	////	2,634 / 2,534	0.014/0.015/ 0.003 / 0.010	0.219	PESIG/EET-03	negative	0.023 - 0.013	negative	positive	2,891 - 2,871	medium positive	positive	1,731 - 1,713	weak positive	negative	0.022 - 0.016	negative	positive	2,128 - 2,074	medium positive
669	PrioWESTERN BSE Thermo Fisher Scientific	W200101G	31/01/2021	NuPage	20030410	03/07/2021	positive	////	////	////	negative	negative	negative	positive	TSE positive	strong positive	positive	TSE positive	medium positive	negative	negative	negative	positive	TSE positive	medium positive

Comments provided by Pier Luigi Acutis, IZSPLVA - Turin (pierluigi.acutis@izsto.it)

Sample WS2001 = WS2004; Sample WS2003=WS2005.

WS2001 - scrapie negative ovine tissue homogenate

All Labs reported the correct result.

WS2002 - classical scrapie ovine tissue homogenate - strong positive

All Labs reported the correct result.

WS2003 - classical scrapie ovine tissue homogenate - medium positive

All Labs reported the correct result.

WS2004 - scrapie negative ovine tissue homogenate.

All Labs reported the correct result.

WS2005 - classical scrapie ovine tissue homogenate - medium positive

All labs reported the correct result except the laboratory 164 which defined it as an atypical

1st or 2nd Alternative test results from laboratories 164 - 784 and 454, although correct, have not been included in this report as the submission temp

In summary the laboratory 164 have failed this PT round, but have already passed a second PT round. All the other laboratories have passed it. Well done.

Date: 10/05/2021
Giuseppe Ru, Director of TSE EURL