



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: WS19

Distribution date:08-09-15 October 2019

BLOT	Test Method used	Kit Batch Number	Expiry Date	Gel Type	Batch	Expiry date	Positive Control result	NegativeControl result	Positive Cut Off value	Method details	Result	Characterisation
Intended ID Lab.											positive	classical scrapie
669	PCW-SLO (Modified method based on PrioWESTERN BSE /Prionics Chek Western)	W190101G	13/05/2020	Invitrogen, NuPage	18090571	04/01/2020	Positive	Negative	/	Two blots, incubated with Abs 6H4 and P4, respectively	positive	classical scrapie
368	Immunoblotting developed in house	0	0	Pre-cast gel Invitrogen	19070370	31/10/2020	strong positive	negative	0	SOP 10DG027 (6/3)	positive	classical scrapie
519	modified WB	W190101G	13/05/2020	NUPAGE 12% Bis-Tris	19041771	01/02/2020	positive	negative	N.A.	modified WB based on Prionics with P4 kit for confirmation of suspected TSE positive samples	positive	classical scrapie
504	TeSeE Western Blot	8M0043	27.04.2020	BioRad-Criterion XT	64301361	10.09.2020	0	0	0		positive	classical scrapie
214	APHA Biorad Hybrid Western Blot	BioRad TeSeE WB kit 8M0043	27/04/2020	12% Criterion	64276416	12/03/2020	Positive	NA	NA	SOP SE.198 Ed7	positive	classical scrapie
856	BIORAD WESTERN BLOT	8M0043	27/04/2020	CRITERION XT PRECAST GEL	64255539	05/02/2020	0	0	0	0	positive	classical scrapie
377	Bio-Rad TeSeE Western blot	8M0043	27/04/2020	0	0	0	positive	negative	0	APHA Bio-Rad TeSeE-based hybrid western blot method	positive	classical scrapie
950	Confirmatory Immunoblot	W190101G (Prionics Check Western)	13 May 2020	NUPAGE Invitrogen	18100371	1 February 2020	Positive	Negative	0	0	positive	classical scrapie
159	TeSeE WESTERN BLOT BIO-RAD	8M0043	27/04/2020	0	0	0	Positive	Negative	0	0	positive	classical scrapie
784	TeSeE Western Blot BioRad	8M0043	27/04/2020	0	0	0	Positive	Negative	0,219	0	positive	classical scrapie
804	In house SHA31 Immunoblot	0	31/12/2019	Bio-RAD TGX	64267210	25/03/2019	positive	negative	0	0	positive	classical scrapie
112	Biorad TeSeE western blot	9F044	20/11/2020	Criterion XT precast gel 12% Bis-Tris	64296813	20/08/2020	CQI, T+ valid	no control	0	Protocol corresponding to the recommendation of the kit	positive	classical scrapie
115	TeSeE Western Blot Kit (BioRad)	9F0044	20/11/2020	XT Precast Criterion 12% Bis-Tris 18W gels	64281983	04/06/2020	Positive, internal control SP32	Negative, internal control SN15	0	LCV SOP: PESIG/EET-10 WB TeSeE BioRad	positive	classical scrapie
189	SAF western blot	W190101G	13/05/2020	NuPage	18090571	04/01/2020	positive	negative	0	SAF western blot	positive	classical scrapie
645	BIO-RAD TeSeE Western Blot kit, ref: 3551169,	8M0043	27-04-2020	NuPAGE 12% BT	19011670	16-05-2020	three bands	no band	0	Confirmatory test based on the BIO-RAD kit	positive	classical scrapie
855	Western blot-Bio Rad	8M0043	27/04/2020	Criterion TM XT Precast Gel	64222538	09/10/2019	strong positive	negative	1.700	Western Blot	positive	classical scrapie
895	BioRad TeSeE Western Blot	8M0043	27/04/2020	NuPage 12% BisTris	19011671	16/05/2020	positive	negative	0	0	positive	classical scrapie
164	The APHA Bio-Rad TeSeE-based Hybrid Western Blotting Method	8M0043	27/04/2020	Criterion XT	64273802	23/04/2020	POS+++ (BSE 1:10) / POS+++ (SCR 1:10)	NEG-	N/A	SOP BSE.01	positive	classical scrapie
363	Biorad TeSeE Western Blot Kit	8M0043	27/04/2020	Biorad Criterion XT 12% Bis-Tris	64261048	27/02/2020	Atypical and classical scrapie positive	Negative brain negative	na	0	positive	classical scrapie
225	BioRad TeSeE Western Blot	8M0043	24/04/2020	In-house made	0	0	Positive	Negative	0	0	positive	classical scrapie

673	OIE SAF Immunoblot	n.a.	n.a.	n.a.	n.a.	n.a.	Positive	Negative (in Blot 1 accidentally mixed with WS1901, same Ctrl sample was used in Blot 2)	n.a.	OIE SAF Immunoblot	positive	classical scrapie
454	WBVR Immunoblot	W190101G	13-May-2020	12% Bis-Tris	19012371	23-May-2020	+ A-typical ; + Classical	Negative	n.a.	00-14-1640	3 bands	classical scrapie
401	Biorad TeSeE Western Blot Kit	8M0043		Biorad Criterion XT 12% Bis-Tris	64273802		Positive	Negative		Western Blot	positive	3 bands

1st Alternative Test												Sample No. WS190:
	Test Method used	Kit Batch Number	Expiry Date	Gel Type	Batch	Expiry date	Positive Control result	NegativeControl result	Positive Cut Off value	Method details	Result	Characterisation
Intended											positive	classical scrapie
ID Lab.												
669	HerdChek BSE Scrapie Antigen kit (IDEXX)	CR046	04/03/2020	/	/	/	3.585/3.510	0.040/0.037	0.2185	0	positive	3.040
377	Bio-Rad TeSeE sheep/goat	9C0041	17/01/2020	0	0	0	1,509	0,008	0,148	Elisa	positive	****
159	HerdChek ELISA	ER361	17/05/2020	0	0	0	>3,5; >3,5	0,033; 0,035	0,214	0	positive	3,323
645	BIO-RAD TeSeE SAP Combi kit, ref: 3551192	9C0073	15-01-2020	0	0	0	3,119; 3,090	0,024; 0,025; 0,025; 0,025	0,235	Purification: NSP robot; Detection: Evolis 5C Microplate System	positive	1,797
363	Biorad TeSeE SAP Combi kit	9F0074	10/04/2020	0	0	0	0	0	0	0	positive	3,503
454	Biorad TeSeE Western Blot	8M0043	27/04/2020	12% Bis-Tris	19012371	23-May-2020	+ A-typical ; + Classical	Negative	N.A.	00-14-1636	3 bands	classical scrapie

2nd Alternative Test												Sample No. WS190:
	Test Method used	Kit Batch Number	Expiry Date	Gel Type	Batch	Expiry date	Positive Control result	NegativeControl result	Positive Cut Off value	Method details	Result	Characterisation
Intended											positive	classical scrapie
ID Lab.												
669	PrioWESTERN BSE (Prionics Chek Western)	W190101G	13/05/2020	Invitrogen, NuPage	18090571	04/01/2020	Positive	Negative	/	0	positive	TSE (classical scrapie)
377	Bio-Rad TeSeE SAP	9C0073	15/01/2020	0	0	0	3,202	0,0073	0,217	Elisa	positive	1,342

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

Sample WS1901 = WS1904; Sample WS1903=WS1905.

WS1901 - classical scrapie positive caprine tissue homogenate - medium positive
All Labs reported the correct result.

WS1902 - classical scrapie positive caprine tissue homogenate - strong positive
All Labs reported the correct result.

WS1903 - scrapie negative caprine tissue homogenate
All Labs reported the correct result.

WS1904 - classical scrapie positive caprine tissue homogenate - medium positive
All Labs reported the correct result.

WS1905 - scrapie negative caprine tissue homogenate
All labs reported the correct result except the lab 673 that eported this sample as positive.

In summary the laboratory 673 have failed this PT round, but have already passed a second PT round. All the other laboratories have passed it. Well done.

Date: 10/02/2020
Giuseppe Ru, Director of TSE EURL

[illegible]

strong positive	positive	classical scrapie	strong positive	negative	0	negative	positive	classical scrapie	medium positive	positive	classical scrapie	weak positive
Positive	3 bands	classical scrapie	Positive	Negative	Negative	Negative	3 bands	classical scrapie	Positive	Negative	Negative	Negative
classical scrapie	positive	3 bands	classical scrapie	Negative	Negative	Negative	positive	3 bands	classical scrapie	Negative	Negative	Negative

1	Sample No. WS1902			Sample No. WS1903			Sample No. WS1904			Sample No. WS1905		
Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation
medium positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	medium positive	negative	////	negative
medium positive	positive	2,626	medium positive	negative	0,017	negative	positive	2,297	medium positive	negative	0,023	negative
strong positive	positive	****	strong positive	negative	0,014	negative	positive	****	strong positive	negative	0,012	negative
strong positive	positive	>3,5	strong positive	negative	0,044	negative	positive	>3,5	strong positive	negative	0,049	negative
medium positive	positive	2,58	strong positive	negative	0,025	negative	positive	1,938	medium positive	positive	0,029	negative
strong positive	positive	3,444	medium positive	negative	0,014	negative	positive	3,348	medium positive	negative	0,014	negative
Positive	3 bands	classical scrapie	Positive	Negative	Negative	Negative	3 bands	classical scrapie	Positive	Negative	Negative	Negative

1	Sample No. WS1902			Sample No. WS1903			Sample No. WS1904			Sample No. WS1905		
Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation	Result	Characterisation	Interpretation
medium positive	positive	classical scrapie	strong positive	negative	////	negative	positive	classical scrapie	medium positive	negative	////	negative
medium positive	positive	TSE (classical scrapie)	medium positive	negative	negative	negative	positive	TSE (classical scrapie)	medium positive	negative	negative	0
medium positive	positive	2,155	strong positive	negative	0,011	negative	positive	1,949	medium positive	negative	0,011	negative