

ISTITUTO ZOOPROFILATTICO SPERIMENTALE DEL PIEMONTE, LIGURIA E VALLE D'AOSTA VIA BOLOGNA 148 - TORINO			
Results Tabulation for Confirmatory Immunoblot test			
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PROFICIENCY TESTING FOR VETERINARY LABORATORIES

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Table 1. General information about 'routine' methods applied by the participants in the WB23 PT

NRL ID code	Test Method used	Kit Batch Number	Kit Expiry Date	Gel Type	Gel Batch Number	Gel Expiry date	Positive Control1 result	Positive Control2 result	Negative Control1 result	Negative Control2 result	Negative Control3 result	Negative Control4 result	Positive Cut Off value	Methods details
055	TesE Western Blot	1K 0051	20/03/2023	4–15% Mini-PROTEAN® TGX™ Precast Protein Gels	64502327	20/04/2024	Positive Scrapie	Positive No'98	Negative	None	None	None	none	Alternative test: IDEXX test short protocol
117	TesE Western Blot	2H0050	27/12/2023	CRITERION XT GEL	64501747	02/08/2023	NONE	NONE	NONE	NONE	NONE	NONE	#	
129	TesE Western Blot	2K0051	20/03/2024	Invitrogen	22100710	04/02/2024	Positive	Positive	Negative	Negative	Negative	Negative	#	
157	TesE Western Blot	2K0051	20/03/2024	Criterion XT Precast Gel 12% Bis-Tris, BIORAD	64532904	30/01/2024	Positive	Positive	Negative	Negative	Negative	Negative	#	
224	TesE Western Blot	2K0047	23/01/2024	Bio-Rad TGX12%	64523231	07/12/2023	Positive	Positive	Negative	Negative	Negative	Negative	#	
239	SAF Western blot	#	#	NuPage	22090910	07/01/2024	Positive	Positive	Negative	Negative	Negative	Negative	#	
283	TesE Western Blot	2H0050	27/12/2023	Home made	#	#	2.395	2.275	0.005	0.006	0.006	0.005	0.194	
339	SAF-immunoblot (in-house method)	#	#	Bis-Tris gel 12% ThermoFisher	23012010	19/05/2024	Medium positive	#	Negative	#	#	#	#	
342	TesE Western Blot	2K0051	20/03/2024	NuPAGE Invitrogen 12% Bis-Tris	23050970	05/09/2024	Positive	Positive	Negative	Negative	Negative	Negative	#	
450	TesE Western Blot	2K0051	20/03/2024	Bio-rad Criterion XT	64545289	03/04/2024	Positive	#	Negative	#	#	#	#	
459	TesE WB modified (IVO/INS/00971)	2H0050	27/11/2023	Criterion XT	64539614	06/03/2024	Conform	#	#	#	#	#	#	

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495	TeSeE Western Blot	2H0050	27/12/2023	NuPage 12% Bis Tris	22102110	18/02/2024	Positive	#	Negative	#	#	#	#	
522	TeSeE Western Blot	2H0050	27/12/2023	NuPage 12% Bis Tris	22081111	09/12/2023	3.615	3.617	0.020	0.020	Negative	Negative	0.140	The positive control results, negative control results and cut-off value are from alternative rapid test, that was additionally tested.
605	TeSeE Western Blot	2K0051	20/03/2024	Criterion XT	64542613	20/03/2024	POS++++	#	NEG-	#	#	#	#	
052	TeSeE Western Blot	2H0050	27/12/2023	Home made	#	#	Positive	#	Negative	#	#	#	#	
633	TeSeE Western Blot	2H0050	27/12/2023	Criterion XT	64539614	06/03/2024	3.828	3.645	0.009	0.010	0.011	0.009	0.220	
648	OIE Immunoblot	#	#	Home made	#	#	Positive	#	Negative	#	#	#	#	In House Method, Self-cast Gel, mab L42
717	TeSeE Western Blot	2K0051	20/03/2024	NuPAGE 12% Bis-Tris	22072011	17/11/2023	Weak +ve	Medium +ve	'-ve	'-ve	'-ve	'-ve	#	
730	TeSeE Western Blot	2H0050	27/12/2023	NuPAGE 12% Bis-Tris Gel	22080910	07/12/2023	3.145	3.194	0.019	0.016	0.017	0.016	0.227	
748	TeSeE Western Blot	2H0050	27/12/2023	Criterion XT Precast gel 12% Bis Tris	64532904	31/01/2024	Positive	Pos	Negative	Neg	Neg	Neg	#	
991	TeSeE Western Blot	2H0050	27/12/2023	BioRad	64501747	02/08/2023	#	#	#	#	#	#	#	
092	TeSeE Western Blot	2K0051	20/03/2024	4-15% Mini-PROTEAN® TGX™ Precast Protein Gels	64502327	20/04/2024	Positive	#	Negative	#	#	#	#	

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Table 2. General information about '1st alternative' methods applied by the participants in the WB23 PT

NRL ID code	Test Method used	Kit Batch Number	Kit Expiry Date	Gel Type	Gel Batch Number	Gel Expiry date	Positive Control1 result	Positive Control2 result	Negative Control1 result	Negative Control2 result	Negative Control3 result	Negative Control4 result	Positive Cut Off value	Methods details
092	TeSeE Western Blot	2K0051	20/03/2024	4-15% Mini-PROTEAN® TGX™ Precast Protein Gels	64502327	20/04/2024	Positive	#	Negative	#	#	#	#	
129	TeSeE SAP Combi	2K0088	08/12/2023	#	#	#	2.085	2.131	0.006	0.000	0.009	0.007	0.214	
339	TeSeE Western Blot	2H0050	27/12/2023	Bis-Tris gel 12% Thermofisher	23012010	19/05/2024	Strong positive	#	Negative; no bands	#	#	#	#	
605	HerdChek BSE/Scrapie Ag – short protocol	EW332	10/05/2024	#	#	#	3.105	3.136	0.025	0.026	#	#	0.146	

Table 3. General information about '2nd alternative' methods applied by the participants in the WB23 PT

NRL ID code	Test Method used	Kit Batch Number	Kit Expiry Date	Gel Type	Gel Batch Number	Gel Expiry date	Positive Control1 result	Positive Control2 result	Negative Control1 result	Negative Control2 result	Negative Control3 result	Negative Control4 result	Positive Cut Off value	Methods details
129	HerdChek BSE/Scrapie Ag – short protocol	MU803	20/12/2023	#	#	#	Over	Over	0.031	0.030	0.031	0.030	0.150	

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Table 4. Results submitted by the participants in the WB23 PT applying 'routine' methods

NRL ID code	Test Method used	WB2301 Interpretation	WB2301 Characterisation	WB2302 Interpretation	WB2302 Characterisation	WB2303 Interpretation	WB2303 Characterisation	WB2304 Interpretation	WB2304 Characterisation	WB2305 Interpretation	WB2305 Characterisation
Intended -->		NEGATIVE Bovine Tissue Homogenate		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:2		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:4		NEGATIVE Bovine Tissue Homogenate		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:4	
055	TeSeE Western Blot	negative	0.050	strong_positive	3.534	strong_positive _e	3.002	negative	0.057	strong_positive	3.382
117	TeSeE Western Blot	negative		strong_positive		strong_positive _e		negative		strong_positive	
129	TeSeE Western Blot	negative		strong_positive		medium_positiv _e		negative		medium_positive	
157	TeSeE Western Blot	negative	0.038	strong_positive	3.999	strong_positiv _e	3.999	negative	0.041	strong_positive	3.999
224	TeSeE Western Blot	negative		strong_positive		strong_positiv _e		negative		strong_positive	
239	SAF Western blot	negative		strong_positive		strong_positiv _e		negative		strong_positive	
283	TeSeE Western Blot	negative	0.009	strong_positive	3.159	medium_positiv _e	2.260	negative	0.008	medium_positive	2.482
339	SAF-Immunoblot (in-house method)	negative		strong_positive		medium_positiv _e		negative		medium_positive	
342	TeSeE Western Blot	negative		strong_positive		strong_positiv _e		negative		medium_positive	
450	TeSeE Western Blot	negative		strong_positive		strong_positiv _e		negative		strong_positive	
459	TeSeE WB modified (LVO/INS/0097)	negative		strong_positive		strong_positiv _e		negative		strong_positive	
495	TeSeE Western Blot	negative		strong_positive		medium_positiv _e		negative		medium_positive	

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522	TeSeE Western Blot	negative	0.027	strong_positive	3.658	strong_positiv e	3.616	negative	0.022	strong_positive	3.608
605	TeSeE Western Blot	negative		strong_positive		strong_positiv e		negative		strong_positive	
052	TeSeE Western Blot	negative		strong_positive		medium_positi ve		negative		medium_positive	
633	TeSeE Western Blot	negative		medium_positiv e		medium_positi ve		negative		weak_positive	
648	OIE Immunoblot	negative		medium_positiv e		medium_positi ve		negative		medium_positive	
717	TeSeE Western Blot	negative		strong_positive		medium_positi ve		medium_positi ve		negative	
730	TeSeE Western Blot	negative	0.017	strong_positive	3.359	medium_positi ve	2.858	negative	0.030	medium_positive	3.052
748	TeSeE Western Blot	negative		strong_positive		strong_positiv e		negative		strong_positive	
991	TeSeE Western Blot	negative		strong_positive		medium_positi ve		negative		medium_positive	

Table 5. Results submitted by the participants in the WB23 PT applying '1st alternative' methods

NRL ID code	Test Method used	WB2301 Interpretation	WB2301 Characterisation	WB2302 Interpretation	WB2302 Characterisation	WB2303 Interpretation	WB2303 Characterisation	WB2304 Interpretation	WB2304 Characterisation	WB2305 Interpretation	WB2305 Characterisation
Intended --->		NEGATIVE Bovine Tissue Homogenate		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:2		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:4		NEGATIVE Bovine Tissue Homogenate		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:4	
092	TeSeE Western Blot	negative		strong_positive		strong_positive		negative		strong_positive	
129	TeSeE SAP Combi	negative	0.018	strong_positive	3.414	medium_positive	2.569	negative	0.009	medium_positive	2.275
339	TeSeE Western Blot	negative		strong_positive		medium_positive		negative		medium_positive	

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605	HerdChek BSE/Scrapie Ag – short protocol	negative	0.023	strong_positive	3.127	strong_positive	3.096	strong_positive	0.025	strong_positive	3.074
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Table 6. Results submitted by the participants in the WB23 PT applying '2nd alternative' methods

NRL ID code	Test Method used	WB2301 Interpretation	WB2301 Characterisation	WB2302 Interpretation	WB2302 Characterisation	WB2303 Interpretation	WB2303 Characterisation	WB2304 Interpretation	WB2304 Characterisation	WB2305 Interpretation	WB2305 Characterisation
Intended ---->		NEGATIVE Bovine Tissue Homogenate		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:2		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:4		NEGATIVE Bovine Tissue Homogenate		C-POSITIVE Bovine Tissue Homogenate - Dilution 1:4	
129	HerdChek BSE/Scrapie Ag – short protocol	negative	0.034	strong_positive	over	strong_positive	over	negative	0.032	strong_positive	over

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

Sample WB2301 = Sample WB2304

Sample WB2303 = Sample WB2305

WB2301 – BSE negative tissue homogenate

All laboratories reported the correct result.

WB2302 – BSE positive tissue homogenate – strong positive

All laboratories reported the correct result.

WB2303 – BSE positive tissue homogenate – medium positive

All laboratories reported the correct result.

WB2304 - BSE negative tissue homogenate

All laboratories reported the correct result except Lab 717 that reported it as positive sample.

WB2305 - BSE positive tissue homogenate – medium positive

All laboratories reported the correct result except Lab 717 that reported it as negative sample.

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

In summary, all the laboratories passed the Proficiency Testing at the first round, except laboratory 717 that succeeded in passing the second round. Well done.

The information contained in this Report must be considered confidential

Date: 02/02/2024

Dr. Giuseppe Ru, Director of TSE EURL

Dr. Elena Bozzetta, Coordinator of TSE EURL

END OF REPORT

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