

PROFICIENCY TESTING FOR VETERINARY LABORATORIES

Results tabulation for PT DB23: Discriminatory western blot in bovine

Distribution date: 13/11/2023

Lab. ID	Date of receipt	Date of testing	Test method used	Kit manufacturer	Batch	Expiry date	Antibodies used	Batch	Expiry date
127	15-11-2023	15-12-2023	APHA BioRad TeSeE based Hybrid WB	BioRad	2K0051	30-03-2024	Sha 31 and P4 Goat anti mouse	64498212 64498212	10-02-2025 10-02-2025
252	14-11-2023	23-11-2023	APHA Biorad Hybrid WB				SHA31 P4	2G0050 350315	23-01-2024 27-07-2023
313	14-11-2023	21-11-2023	ANSES WB	TeSeS-WB for extraction	22000589	28-12-2023	SHA31 SAF84	22000589 14	28-12-2023 01-03-2026
472	16-11-2023	19-12-2023	FLI Test	not relevant	not relevant		mab L42 (in house) mab P4, in-house	not relevant, in-house not relevant, in-house	28-05-2034 28-05-2034
514	14-11-2023	24-12-2023	TeSeE Western blot	Bio-Rad	3C0052	04-08-2024	Sha 31 SAF84 12B2 P4 Goat anti-mouse 64403963	3B0052 222 260313 350315 64403963	22-08-2024 11/07/2024 NA 01/06/2022 02-03-2024
532	14-11-2023	12-02-2023	BioRad TeSeE Hybrid WB	Bio-Rad	2K0047	23-01-2024	Sha31 12B2	0216 26031PrP12B2	31-01-2024 31-01-2024
539	15-11-2023	12-12-2023	2-blot protocol	Biorad	3C0052	04-08-2024	SHA31 12B2	3B0052 NA	22-08-2024 10-12-2024
688	14-11-2023	27-11-2023	APHA Bio-Rad TeSeE based Hybrid Method	TeSeE Western Blot Biorad CEA	2K0051	21-03-2024	SHA31 P4	2K0051 2390320	15-04-2024 30-07-2022
803	14-11-2023	14-11-2023	ISS BSE Discriminatory WB	nd	nd		L42 12B2	7750818 260313	12-10-2024 26-10-2024
811	14-11-2023	22-11-2023	EEB discrimination by immunotransference using different antibodies	Bio-Rad	3C0052	04-08-2024	Sha 31 P4	3B0052 7491022	22-08-2024 01-09-2024
811*	14-11-2023	04-12-2023	EEB discrimination by treatment with different PK concentrations				Sha31 L42	3B0052 7750818	22-08-2024 12-10-2024
959	16-11-2023	29-12-2023	APHA biorad TeSeE based Western Blot	Bio-Rad	3C0052	04-08-2024	Sha31 P4	3C0052 221124	04-08-2023 22-11-2027

*1st alternative test

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Distribution date: 13/11/2023

Sample ID	DB2331		DB2332		DB2333		DB2334	
Intended	C-BSE		C-BSE		H-BSE		L-BSE	
Lab. ID	Result	Comments	Result	Comments	Result	Comments	Result	Comments
127	C-BSE		C-BSE		H-BSE		L-BSE	
252	C-BSE		C-BSE		H-BSE		L-BSE	
313	C-BSE		C-BSE		H-BSE		L-BSE	
472	C-BSE		C-BSE		H-BSE		L-BSE	
514	C-BSE		C-BSE		H-BSE		L-BSE	
532	C-BSE	Very strong signal, sample was diluted 1:3 in sample buffer prior loading. Most prominent diglycosylated band.	C-BSE	Very strong signal, sample was diluted 1:3 prior to loading. Most prominent diglycosylated band.	H-BSE	Very weak signal, characteristic reactivity with 12B2.	L-BSE	Very weak signal with Sha31, prominent monoglycosylated band.
539	C-BSE	dominant diglycosylated band	C-BSE	dominant diglycosylated band	H-BSE	higher position on the blot with comparison to C-type BSE, reactivity with N-terminal antibody 12B2	L-BSE	lower position compared to C-type BSE and almost equal amounts of di- and mono-glycosylated bands
688	C-BSE	Predominance of diglycosylated band and no signal with mAb P4.(OD=3.270)	C-BSE	Predominance of diglycosylated band and no signal with mAb P4 (OD>3.500; 1/10 dilution OD=2.875)	H-BSE	High molecular mass migration and signal with mAbP4 (OD=2.751)	L-BSE	Similar diglycosylated and monoglycosylated bands, lower molecular mass migration and no signal with mAbP4 (OD=0.022; 0.039).
803	C-BSE		C-BSE		H-BSE		L-BSE	
811	C-BSE		C-BSE		H-BSE		L-BSE	
811*	C-BSE		C-BSE		H-BSE		L-BSE	
959	C-BSE		C-BSE		H-BSE		L-BSE	

*1st alternative test

Comments :

The participants reported all samples as the intended results.

Laboratory 252 didn't upload raw data for the second antibody. The laboratory was asked to provide the missing data before the editing of the final tabulation.

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

Conclusion:

All the laboratories passed this PT round successfully.

Date: 28 December 2023

Giuseppe Ru, TSE EURL Director

