

Epizootic Haemorrhagic Disease



ID Screen[®] EHDV Competition ELISA



- The best combination of high sensitivity and specificity
- High exclusivity with respect to BTV

With you at every step

ID.vet
Innovative Diagnostics

ID Screen® EHDV Competition

High specificity and exclusivity

- Specificity**

Analysis of 757 samples from EHDV and BTV disease-free regions:

	Specificity (%) (number of samples)	IC _{95%}
Bovine	100 (373)	99.0% - 100%
Goat	100 (147)	97.4% - 100%
Sheep	100 (88)	95.8% - 100%
Deer	100 (149)	97.5% - 100%

- Exclusivity with respect to BTV**

Analysis of 300 samples from an EHDV-free area in Europe, including BTV-vaccinated animals (serotypes 1, 2, 4, 8) and/or infected animals (cattle and small ruminants):

		ID Screen® Bluetongue Competition		Total
		Positive	Negative	
ID Screen® EHDV Competition	Positive	1	0	1
	Doubtful	1	0	1
	Negative	328	0	328
	Total	330	0	330

ID Screen® EHDV Competition ELISA

Measured exclusivity:

- 99.4 %** (IC_{95%}: 97.8% - 99.8%), n=330 considering doubtful samples as positive
- 99.7 %** (IC_{95%}: 98.3% - 100%), n=330 considering doubtful samples as negative

→ All samples tested were ELISA-positive for BTV

→ 328 of them were found negative with the **ID Screen® EHDV Competition** ELISA, demonstrating very limited cross-reactions and a high specificity for the detection of anti-EHDV VP7 antibodies, even in high BTV prevalence areas.

Excellent sensitivity

- Based on the conserved VP7 protein, the **ID Screen® EHDV Competition** ELISA has been **designed to detect all known serotypes**. It has proven to detect antibodies against EHDV serotypes 1 (PJ70 and RR91), 2 (including 318), 6, 7, 8.

- The **ID Screen® EHDV Competition** ELISA **detects antibodies as of 7 to 15 days post-infection**.

- Comparison with the AGID technique (table below)**

→ All samples classified as positive or weak positive with the Agar Gel ImmunoDiffusion (AGID) technique were found clearly positive with the **ID Screen® EHDV Competition** ELISA:

		AGID			Total
		Positive	Weak positive	Negative	
ID Screen® EHDV Competition	Positive	14	10	0	24
	Negative	0	0	0	0
	Total	14	10	0	24

