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Anaplasma platys

The PCRun *Anaplasma platys* Molecular Detection Kit was tested against DNA samples supplied by the Vector Borne Disease Diagnostic Laboratory located in the School of Veterinary Medicine, North Carolina State University. The NCSU laboratory regularly tests canine blood samples by an in-house developed Sybr Green based Real Time PCR. The aim of the study was to compare the sensitivity and specificity of the PCRun *Anaplasma platys* Molecular Detection Kit with the diagnostic Real Time PCR.

Method: Blind study

Samples: Twenty-eight DNA samples extracted from blood (Qiagen Blood Extraction kit) labelled numerically BG 21-40 and BG 60-80 randomly arranged. The samples consisted of archived DNA collected from canines originating from Italy (19) and the US (9). The samples were maintained at -80^{0}C until use.

PCRun Protocol: Each reaction pellet was dissolved in 15 µl of PCRun Buffer followed by the addition of 5 µl extracted DNA. Incubation for amplification was carried out in a PCRun Reader at 60^{0}C for 60 min. Amplification results were determined by PCRun Reader and NAAT Detection Device.

Results:

True Positives	19		Sensitivity	95%
False negatives	1		Specificity	100%
False positives	0			
True negatives	8			

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