

# Which Lipase is detected by PT10V?

PT10V

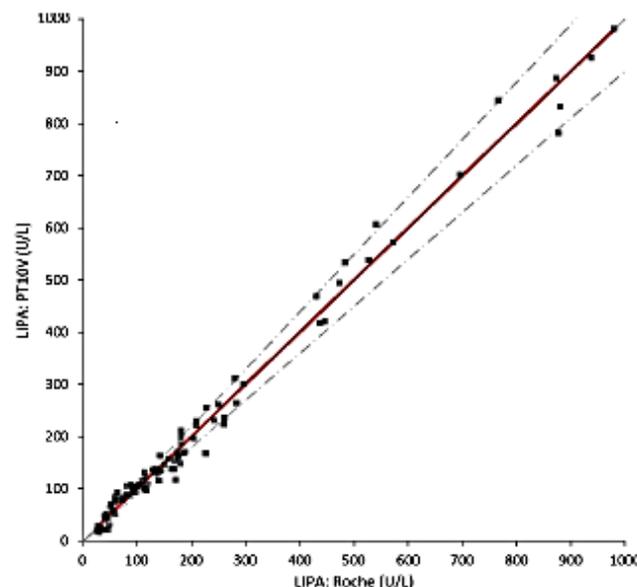
Different lipase reagents and assays exist in the market. The DGGR reagent is well known as a pancreas-specific lipase test and used since years to detect and monitor patients with acute pancreatitis. The PT10V Lipase reagent on Comprehensive Plus 17V cartridge bases on the substrate Triolein and includes, similarly to the DGGR assay, a colipase enzyme. It is, however, not the DGGR reagent.

## → Excellent comparison to DGGR reagent

During the method validation studies, Samsung took special care to provide a lipase assay which compares excellently to the DGGR reagent (applied on the Roche P-modular). 96 canine and 42 feline serum samples were measured on PT10V as well as on DGGR reagent on Roche P-modular. Results were the following:

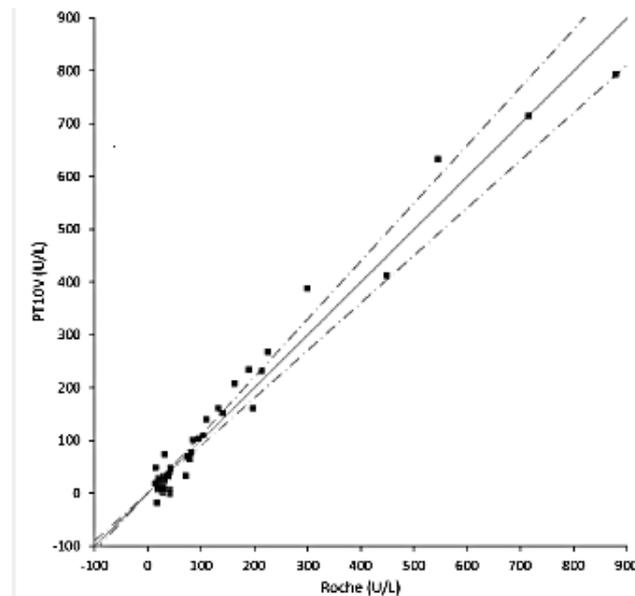
### Canine:

Analyte	Test range	N	Slope	Intercept	R
LIPA	25 – 981	96	1.00	-0.04	0.99



## Feline:

Analyte	Test range	N	Slope	Intercept	R
LIPA	14 – 880	42	1.00	0.00	0.99



## Summary:

Samsung proved that the Lipase assay on the PT10V cartridge shows an excellent correlation to the DGGR assay based on high R-values of 0.99. Slope and intercept were optimal for the Lipase assay on PT10V for canine and feline samples and underlined the high accuracy of the test.

## References:

Goodband EL et al. Validation of a commercial 1,2-o-dilauryl-rac-glycero glutaric acid- (6'- methyl-resorufin) ester lipase assay for diagnosis of canine pancreatitis. *Vet Rec Open* **2018**;5:e000270. doi:10.1136/vetreco-2017-000270 (Uni Cambridge, UK)

Oppliger S. et al. Comparison of Serum Spec fPL™ and 1,2-o-Dilauryl-Rac-Glycero-3-Glutaric Acid-(60-Methylresorufin) Ester Assay in 60 Cats Using Standardized Assessment of Pancreatic Histology. *J Vet Intern Med* **2016**;30:764–770 (Uni Zurich, Switzerland)

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O'Brien P, Papakonstantinou S, McGrath C. Pancreatic, DGGR-Lipase, Enzymatic assay provides a highly sensitive, specific and inexpensive biomarker of pancreatitis in cats and dogs. Proceedings, ESCVCP Congress Berlin, **2013** (Uni Dublin, Ireland)

