



## Analytical Performance Evaluation Report

- ***VB1 Diagnosis Panel***
- ***VB1 Diagnosis Plus panel***
- ***VB1 Preanesthetic Panel***
- ***VB1 Liver Panel***
- ***VB1 Renal Panel***
- ***VB1 Equine Panel***
- ***VB1 Thyroid/T4 Panel***
- ***VB1 Large Animal Panel***
- ***VB1 Liver Plus Panel***
- ***VB1 Avian & Reptile Panel***
- ***VB1 Electrolyte Panel***
- ***VB1 Diagnosis-II Panel***

Albumin (ALB)  
Alkaline Phosphatase (ALP)  
Alanine Aminotransferase (ALT)  
Amylase (AMY)  
Aspartate Aminotransferase (AST)  
Blood Urea Nitrogen (BUN)  
Calcium (Ca)  
Chloride (Cl)  
Creatine Phosphokinase (CPK)  
Creatinine (CREA)  
γ-Glutamyl Transpeptidase (GGT)  
Glucose (GLU)  
Potassium (K)  
Magnesium (Mg)  
Sodium (Na)  
Total Bilirubin (TBIL)  
Total Protein (TP)  
Phosphorus (PHOS)  
Thyroxine (T4)  
Cholesterol (CHOL)  
Total Bile Acid (BA)  
Urine Acid (UA)  
Total CO<sub>2</sub> (tCO<sub>2</sub>)  
Lipase (LIPA)  
Lactate (LAC)



## Skyla VB1 Panel Analytical Performance Evaluation Report

Issue date: 2015.10

Revise date: 2018 04

### ■ Dynamic Range

Test Item	Dynamic Range (Common Unit)		Dynamic Range (SI Unit)	
ALB	1.0-6.0	g/dL	10-60	g/L
ALP	41-2000	U/L	41-2000	U/L
ALT	20-1100	U/L	20-1100	U/L
AMY	22-3000	U/L	22-3000	U/L
AST	20-1000	U/L	20-1000	U/L
BUN	2-140	mg/dL	0.7-50.0	mmol urea/L
Ca	4-15	mg/dL	1.0-3.8	mmol/L
Cl	70-140	mmol/L	70-140	mmol/L
CPK	40-2400	U/L	40-2400	U/L
CREA	0.3-20	mg/dL	27-1768	μmol/L
GGT	10-1500	U/L	10-1500	U/L
GLU	30-550	mg/dL	1.7-30.5	mmol/L
K	1.5-8.5	mmol/L	1.5-8.5	mmol/L
Mg	0.1-8.0	mg/dL	0.04-3.33	mmol/L
Na	110-175	mmol/L	110-175	mmol/L
PHOS	0.4-20	mg/dL	0.13-5.81	mmol/L
TBIL	0.4-30	mg/dL	7-513	μmol/L
TP	1.5-10	g/dL	15-100	g/L
T4	0.5-7.0	μg/dL	6.5-90.1	nmol/L
CHOL	50-540	mg/dL	1.3 – 14.0	mmol/L
BA	5.0-140	μmol/L	5.0-140	μmol/L
UA	1 – 20	mg/dL	59 – 1190	μmol/L
tCO <sub>2</sub>	10 - 40	mmol/L	10 - 40	mmol/L
LIPA	25-300	U/L	25-300	U/L

■ **Analytical Specificity (Interference study)**

Physiological interferences in blood include hemolysis, icterus, and lipemia. For every test item, 2 Levels serum pool supplemented with known concentrations of the endogenous substances were used for the testing. Significant interference is defined as a >20% shift in the test result. (Note: Highest tested concentration for Hemoglobin: 600 mg/dL; Bilirubin (unconjugated): 62.5 mg/dL, Bilirubin (conjugated): 57.5 mg/dL; Intralipid: 0.55%)

Test Item	Substance concentration with interferences of less than 20%			
	Hemoglobin	Bilirubin (unconjugated)	Bilirubin (conjugated)	Intralipid
ALB	300 mg/dL	62.5 mg/dL	57.5 mg/dL	0.2%
ALP	600 mg/dL	25.9 mg/dL	57.5 mg/dL	0.1%
ALT	500 mg/dL	34.5 mg/dL	28.4 mg/dL	0.1%
AMY	400 mg/dL	62.5 mg/dL	57.5 mg/dL	0.55%
AST	300 mg/dL	42.1 mg/dL	22.3 mg/dL	0.1%
BUN	500 mg/dL	42.1 mg/dL	29.3 mg/dL	0.43%
Ca	600 mg/dL	56.3 mg/dL	57.5 mg/dL	0.3%
Cl	300 mg/dL	47.1 mg/dL	44.9 mg/dL	0.4%
CPK	700 mg/dL	50.9 mg/dL	51.3 mg/dL	0.3%
CREA	200 mg/dL	25.9 mg/dL	---	0.17%
GGT	400 mg/dL	36.7 mg/dL	26.3 mg/dL	0.1%
GLU	600 mg/dL	62.5 mg/dL	57.5 mg/dL	0.3%
K	100 mg/dL	40.2 mg/dL	22.8 mg/dL	0.15%
Mg	1000 mg/dL	38.0 mg/dL	20.6 mg/dL	0.17%
Na	600 mg/dL	43.3 mg/dL	33.5 mg/dL	0.4%
PHOS	190 mg/dL	32.2 mg/dL	41.6 mg/dL	0.3%
TBIL	600 mg/dL	---	---	0.1%
TP	300 mg/dL	62.5 mg/dL	57.5 mg/dL	0.2%
T4	100 mg/dL	25.0 mg/dL	57.5 mg/dL	0.1%
CHOL	300 mg/dL	30.0 mg/dL	30.0 mg/dL	0.2%
BA	200 mg/dL	50.4 mg/dL	26.6 mg/dL	0.2%
UA	253.1 mg/dL	9.8 mg/dL	6.26 mg/dL	0.03%
tCO <sub>2</sub>	530mg/dL	41.5 mg/dL	42.4 mg/dL	0.16%
LIPA	200 mg/dL	29.0 mg/dL	20.2 mg/dL	0.2%

## ■ Method Comparison

The SIMENS ADVIA 1800 was used as comparative method in the study. The tests are performed by using the same clinical serum sample for two methods. Correlation between two methods can be determined through statistical analysis.

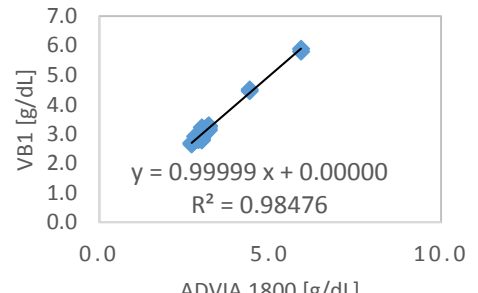
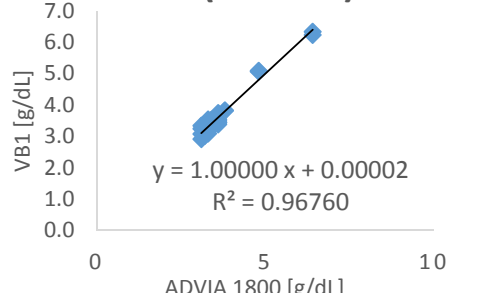
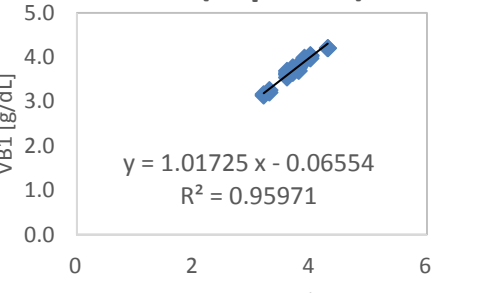
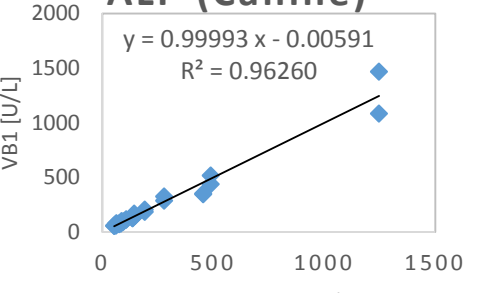
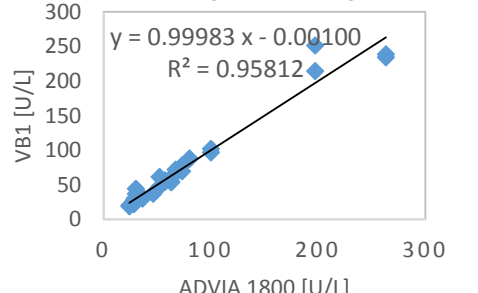
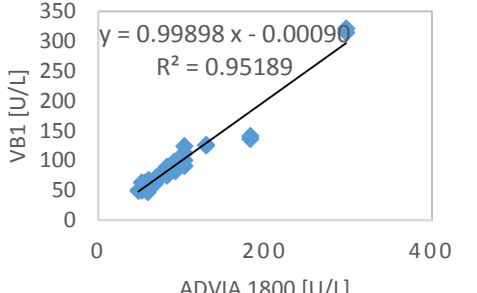
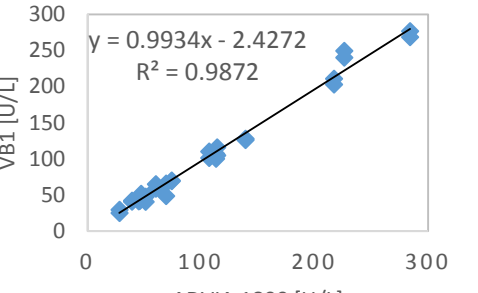
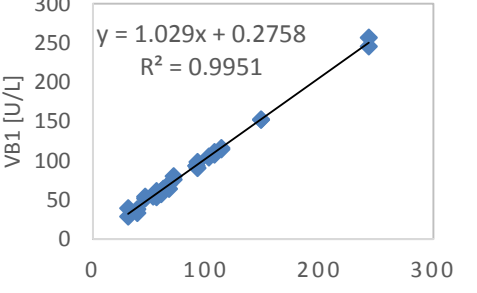
\* IDEXX SNAPshot DX was used as comparative method for T4 kit.

\*\* The Cobas b111 was used as comparative method for LIPA kit.

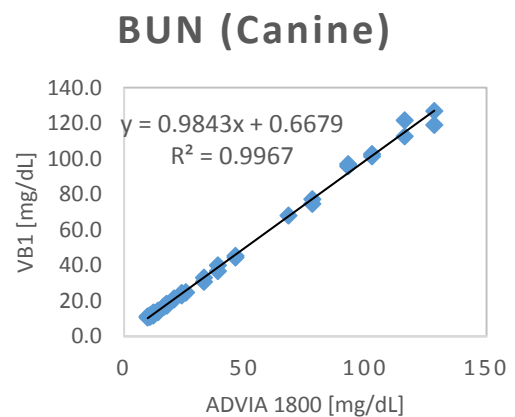
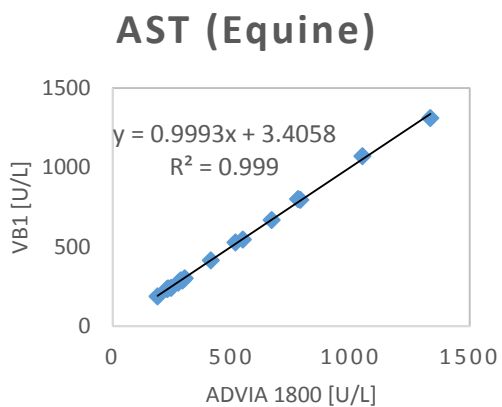
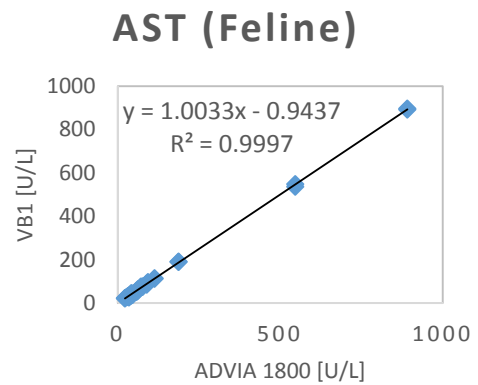
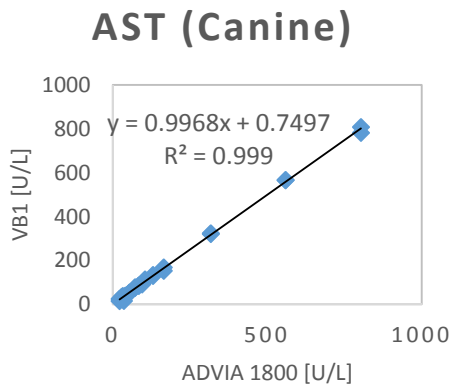
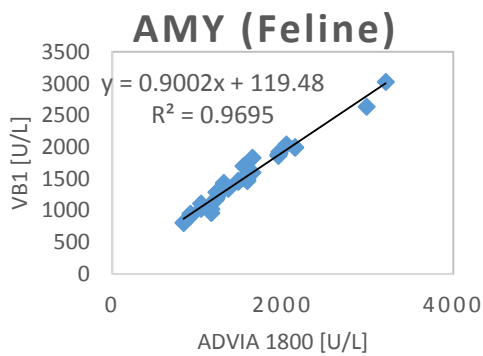
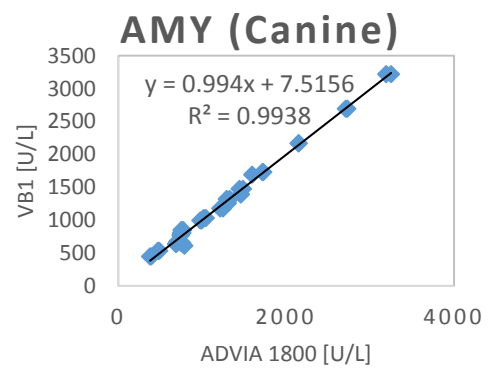
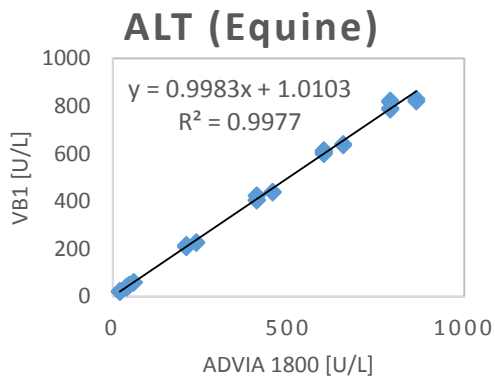
Marker		R <sup>2</sup>	Slope	Intercept	Sample No.	Sample Range
ALB	Canine	0.9848	0.9999	0.0000	38	2.7-5.9 g/dL
	Feline	0.9676	1.0000	0.0000	38	3.1-6.4 g/dL
	Equine	0.9597	1.0173	-0.0655	30	3.2-4.3 g/dL
ALP	Canine	0.9626	0.9999	-0.0059	32	53-1246 U/L
	Feline	0.9581	0.9998	-0.0010	32	24-263 U/L
	Equine	0.9519	0.9990	-0.0009	42	48-297 U/L
ALT	Canine	0.9872	0.9934	-2.4272	32	28-284 U/L
	Feline	0.9951	1.0290	0.2758	32	31-243 U/L
	Equine	0.9977	0.9983	1.0103	43	20-863 U/L
AMY	Canine	0.9938	0.9940	7.5156	40	377-3250 U/L
	Feline	0.9695	0.9002	119.48	33	834-3205 U/L
AST	Canine	0.9990	0.9968	0.7497	38	22-803 U/L
	Feline	0.9997	1.0033	-0.9437	38	22-891 U/L
	Equine	0.0090	0.9993	3.4058	16	188-1310 U/L
BUN	Canine	0.9967	0.9843	0.6679	41	9.7-128.4 mg/dL
	Feline	0.9923	1.0067	-0.7677	40	17.5-126.9 mg/dL
	Equine	0.9987	1.0089	-0.2231	66	12.5-135.6 mg/dL
Ca	Canine	0.9888	1.0000	0.0000	38	7.3-16.4 mg/dL
	Feline	0.9823	0.9966	0.2615	34	6.3-14.1 mg/dL
	Equine	0.9819	1.0551	-0.7172	38	10.2-16.1 mg/dL
Cl	Canine	0.9804	0.9902	1.0159	36	93-136 mmol/L
	Feline	0.9819	0.9802	2.4583	28	90-146 mmol/L
CPK	Canine	0.9960	0.9931	-0.0083	15	88-1027 U/L
	Feline	0.9971	0.9990	-0.0025	12	121-1861 U/L
	Equine	0.9605	1.0126	-0.7476	20	86-237 U/L
CREA	Canine	0.9968	1.0526	-0.0305	38	0.5-16.9 mg/dL
	Feline	0.9928	1.0498	-0.2650	38	1.0-17.7 mg/dL
	Equine	0.9876	0.0059	-0.0811	16	1.02-19.96 mg/dL

Marker		R <sup>2</sup>	Slope	Intercept	Sample No.	Sample Range
GGT	Canine	0.9992	1.0014	- 0.5713	28	17-1861 U/L
	Feline	0.9988	1.0027	0.0039	12	27-1647 U/L
	Equine	0.9983	1.0105	0.7239	25	11-1509U/L
GLU	Canine	0.9953	1.0000	0.00892	43	78-558 mg/dL
	Feline	0.9957	0.9956	2.1761	44	93-549 mg/dL
	Equine	0.9959	1.1018	-2.8485	16	73-520 mg/dL
K	Canine	0.9805	0.9728	0.1666	33	3.9-7.7 mmol/L
	Feline	0.9810	1.0343	-0.1891	47	2.3-7.2 mmol/L
	Equine	0.9809	0.9745	0.0953	34	1.8-7.0 mmol/L
Mg	Control	0.9927	1.0031	0.0022	24	2.0-4.7 mg/dL
Na	Canine	0.9854	0.9969	0.7604	40	116-178 mmol/L
	Feline	0.9863	0.9887	1.5809	47	125-175 mmol/L
	Equine	0.9849	1.0181	2.6927	31	111-167 mmol/L
PHOS	Canine	0.9855	1.0469	-0.5006	23	2.3-13.5 mg/dL
	Feline	0.9862	1.0223	-0.2665	22	4.5-12.2 mg/dL
TBIL	Canine	0.9966	0.9866	0.2672	23	0.1-31.2 mg/dL
	Feline	0.9954	0.9965	0.0687	25	0.1-31.2 mg/dL
	Equine	0.9964	1.0305	-0.0920	19	0.9-6.5 mg/dL
TP	Canine	0.9603	0.9999	0.0000	38	5.2-9.5 g/dL
	Feline	0.9883	0.9999	0.0000	38	6.3-10.3 g/dL
	Equine	0.9639	1.0153	-0.1318	19	6.0-8.3 g/dL
T4*	Canine	0.9547	1.0059	-0.0476	34	0.6-4.8 µg/dL
	Feline	0.9468	0.9503	0.2243	24	1.1-7.0 µg/dL
CHOL	Canine	0.9944	0.9115	2.840	12	98-310 mg/dL
	Feline	0.9899	1.0557	-10.199	15	84-220 mg/dL
BA	Canine	0.9878	0.9349	0.6227	21	8.8-137 U/L
	Feline	0.9924	0.9848	-0.7697	20	9.1-131 U/L
UA	Control	0.9928	0.9776	0.4692	33	5.11-9.89 mg/dL
tCO <sub>2</sub>	Canine	0.9846	0.9218	2.7611	18	19.2-41.8 mmol/L
	Feline	0.9802	1.0766	-2.3002	17	13.1-36.7 mmol/L
	Equine	0.9814	1.0212	- 1.2205	18	16.4-38.7 mmol/L
LIPA**	Canine	0.9932	1.0139	-1.1153	20	27-289 U/L
	Feline	0.9961	0.9977	1.4814	8	26-220 U/L

### Statistical analysis results of method comparison study

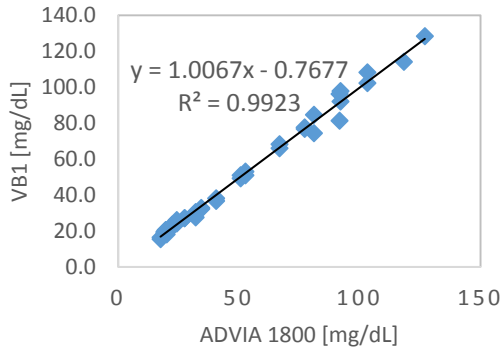
<p><b>ALB (Canine)</b></p>  <p><math>y = 0.99999x + 0.00000</math> <math>R^2 = 0.98476</math></p>	<p><b>ALB (Feline)</b></p>  <p><math>y = 1.00000x + 0.00002</math> <math>R^2 = 0.96760</math></p>
<p><b>ALB (Equine)</b></p>  <p><math>y = 1.01725x - 0.06554</math> <math>R^2 = 0.95971</math></p>	<p><b>ALP (Canine)</b></p>  <p><math>y = 0.99993x - 0.00591</math> <math>R^2 = 0.96260</math></p>
<p><b>ALP (Feline)</b></p>  <p><math>y = 0.99983x - 0.00100</math> <math>R^2 = 0.95812</math></p>	<p><b>ALP (Equine)</b></p>  <p><math>y = 0.99898x - 0.00090</math> <math>R^2 = 0.95189</math></p>
<p><b>ALT (Canine)</b></p>  <p><math>y = 0.9934x - 2.4272</math> <math>R^2 = 0.9872</math></p>	<p><b>ALT (Feline)</b></p>  <p><math>y = 1.029x + 0.2758</math> <math>R^2 = 0.9951</math></p>

### Statistical analysis results of method comparison study

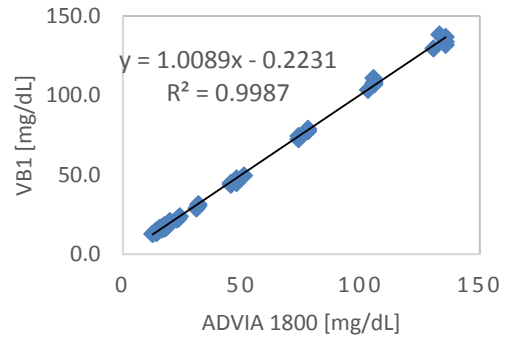


### Statistical analysis results of method comparison study

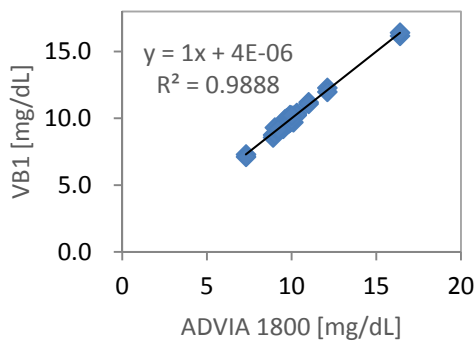
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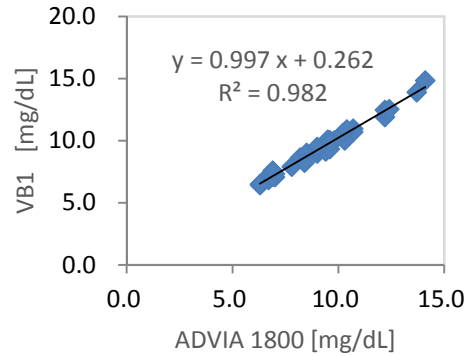
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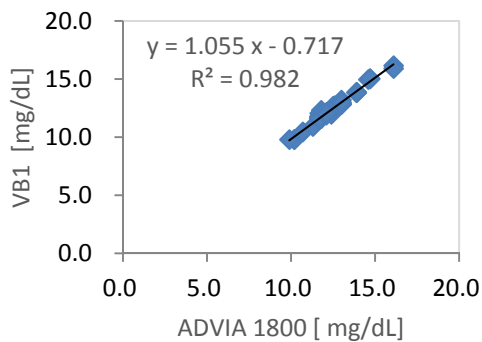
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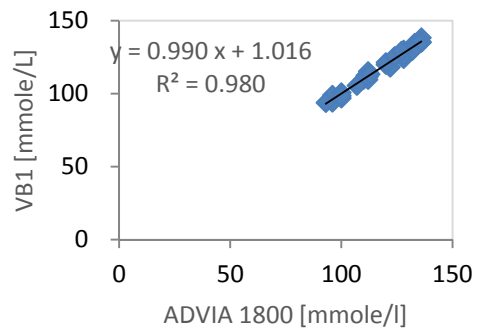
#### Ca (Feline)



#### Ca (Equine)



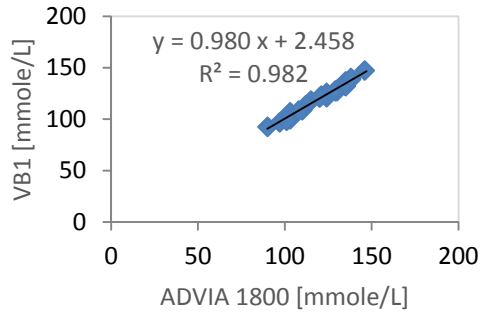
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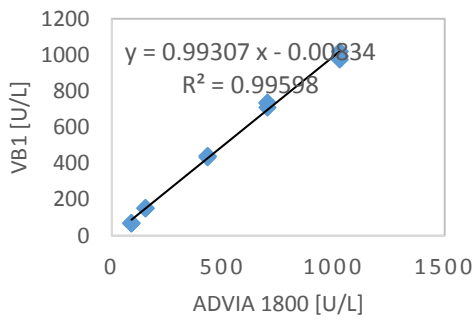


**Statistical analysis results of method comparison study**

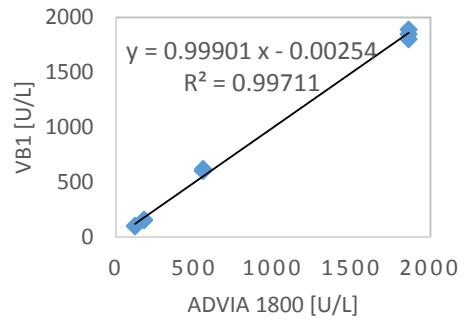
**Cl ( Feline)**



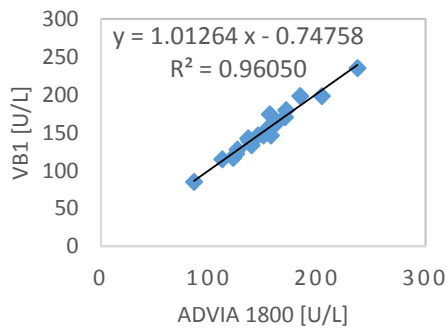
**CPK (Canine)**



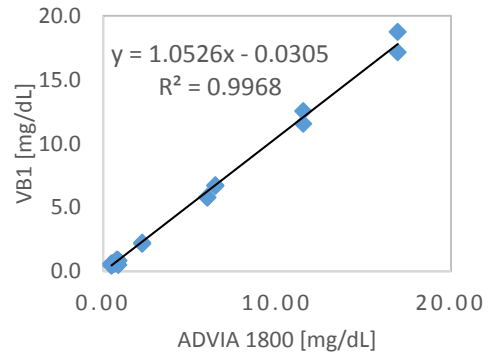
**CPK (Feline)**



**CPK (Equine)**

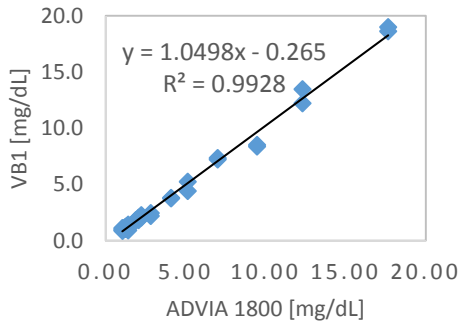


**CREA (Canine)**

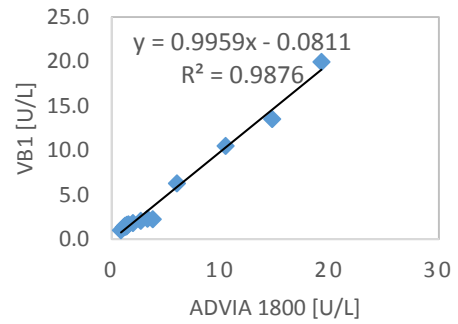


### Statistical analysis results of method comparison study

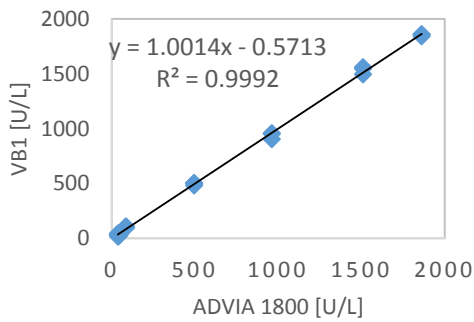
#### CREA (Feline)



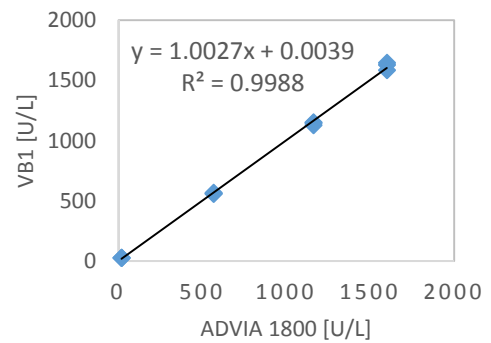
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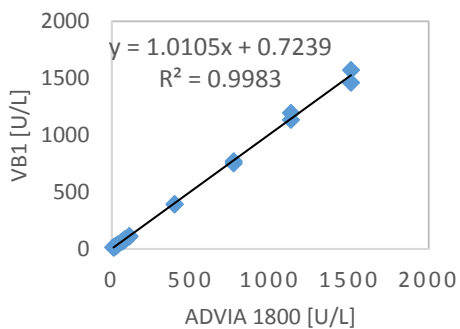
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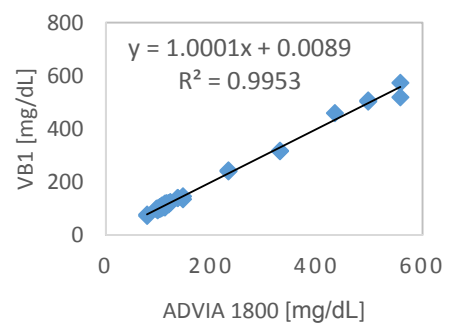
#### GGT (Feline)



#### GGT (Equine)

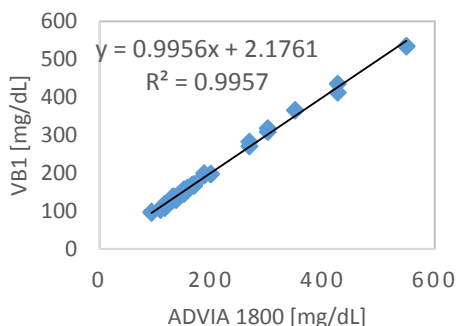


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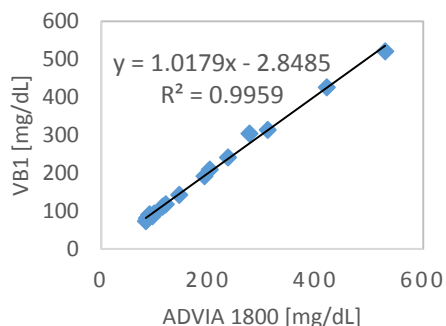


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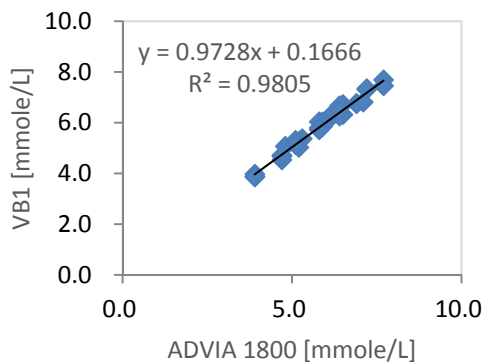
#### GLU (Feline)



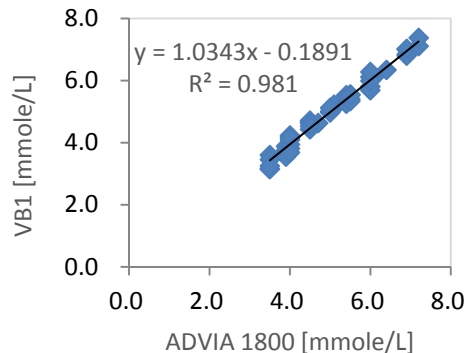
#### GLU (Equine)



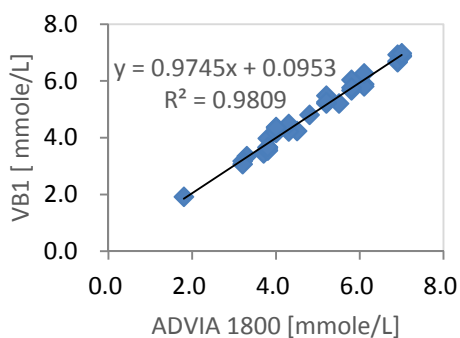
#### K (Canine)



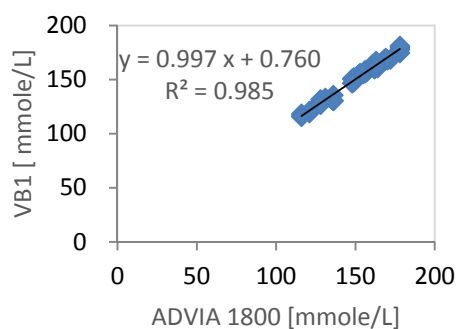
#### K (Feline)



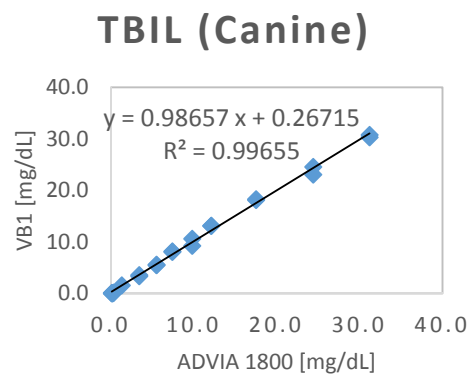
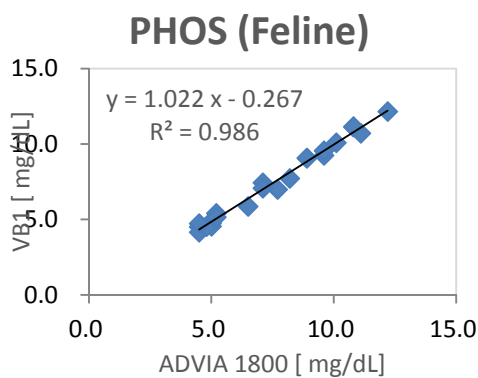
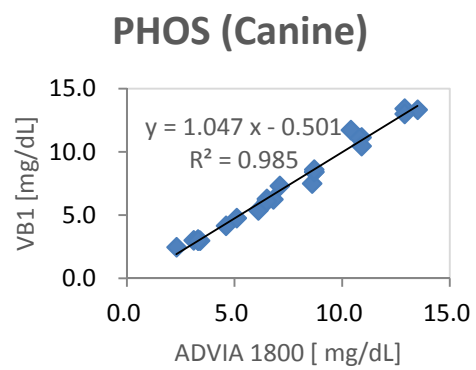
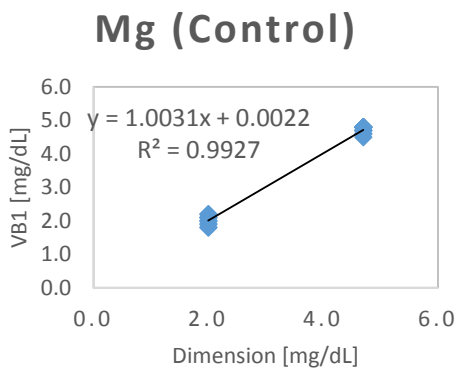
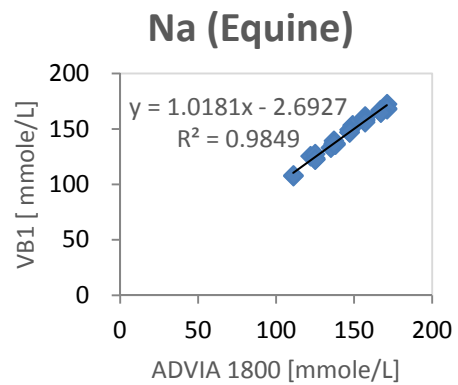
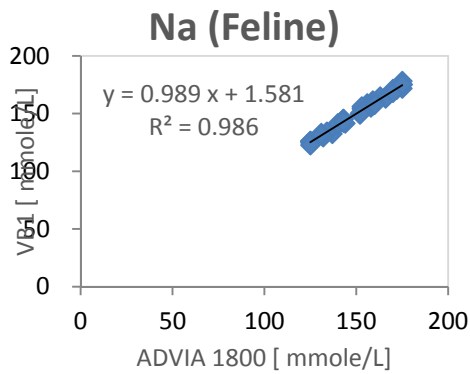
#### K (Equine)



#### Na (Canine)

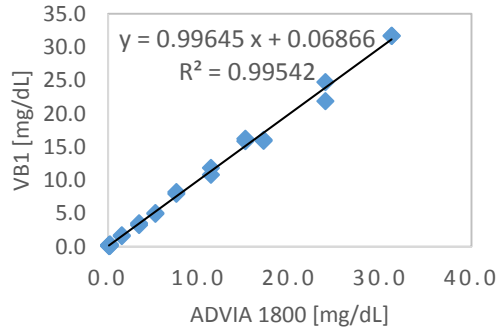


### Statistical analysis results of method comparison study

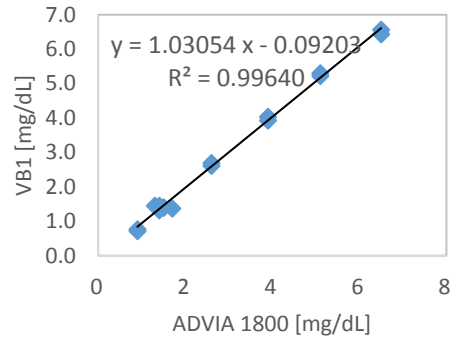


### Statistical analysis results of method comparison study

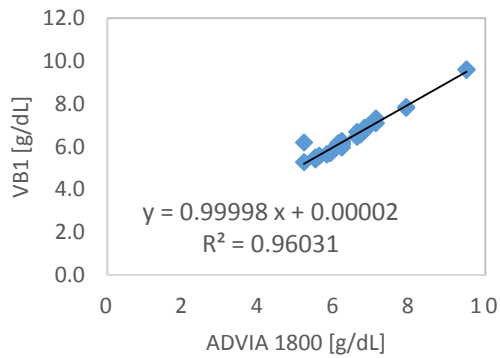
#### TBIL (Feline)



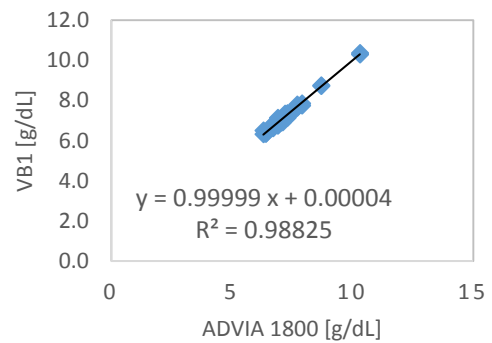
#### TBIL (Equine)



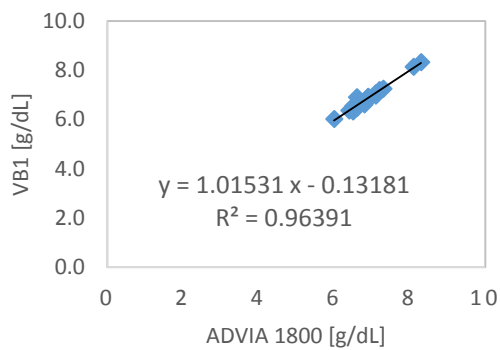
#### TP (Canine)



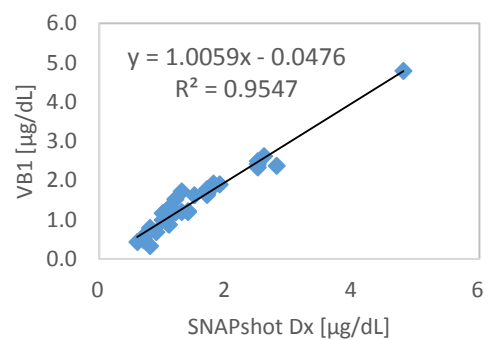
#### TP (Feline)



#### TP (Equine)

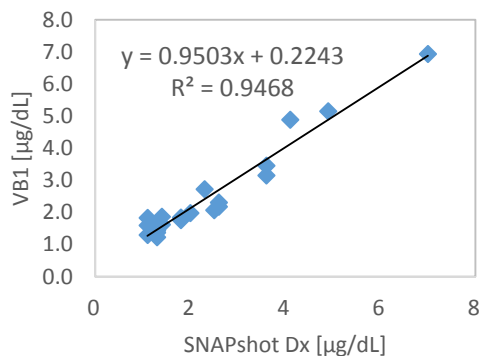


#### T4 (Canine)

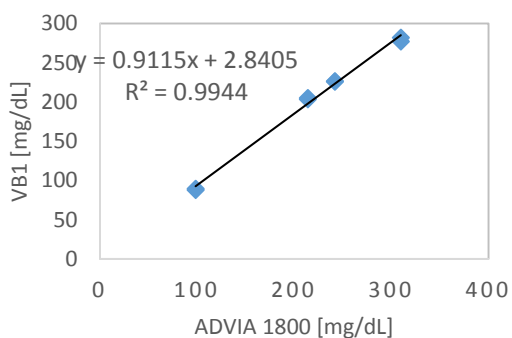


### Statistical analysis results of method comparison study

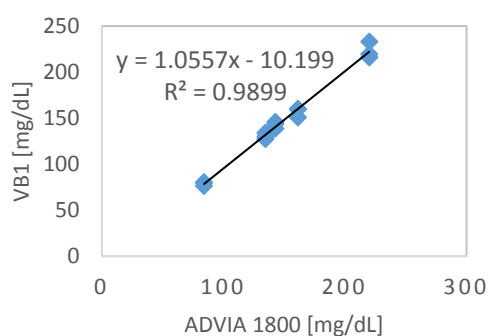
#### T4 (Feline)



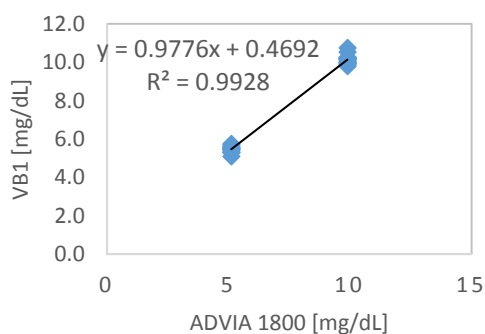
#### CHOL (Canine)



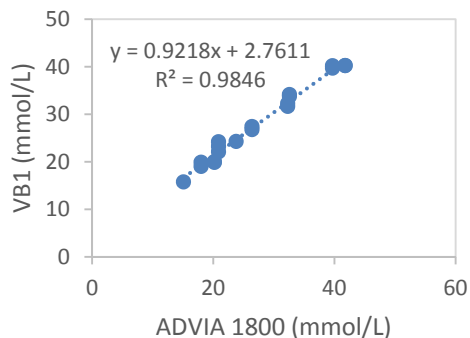
#### CHOL (Feline)



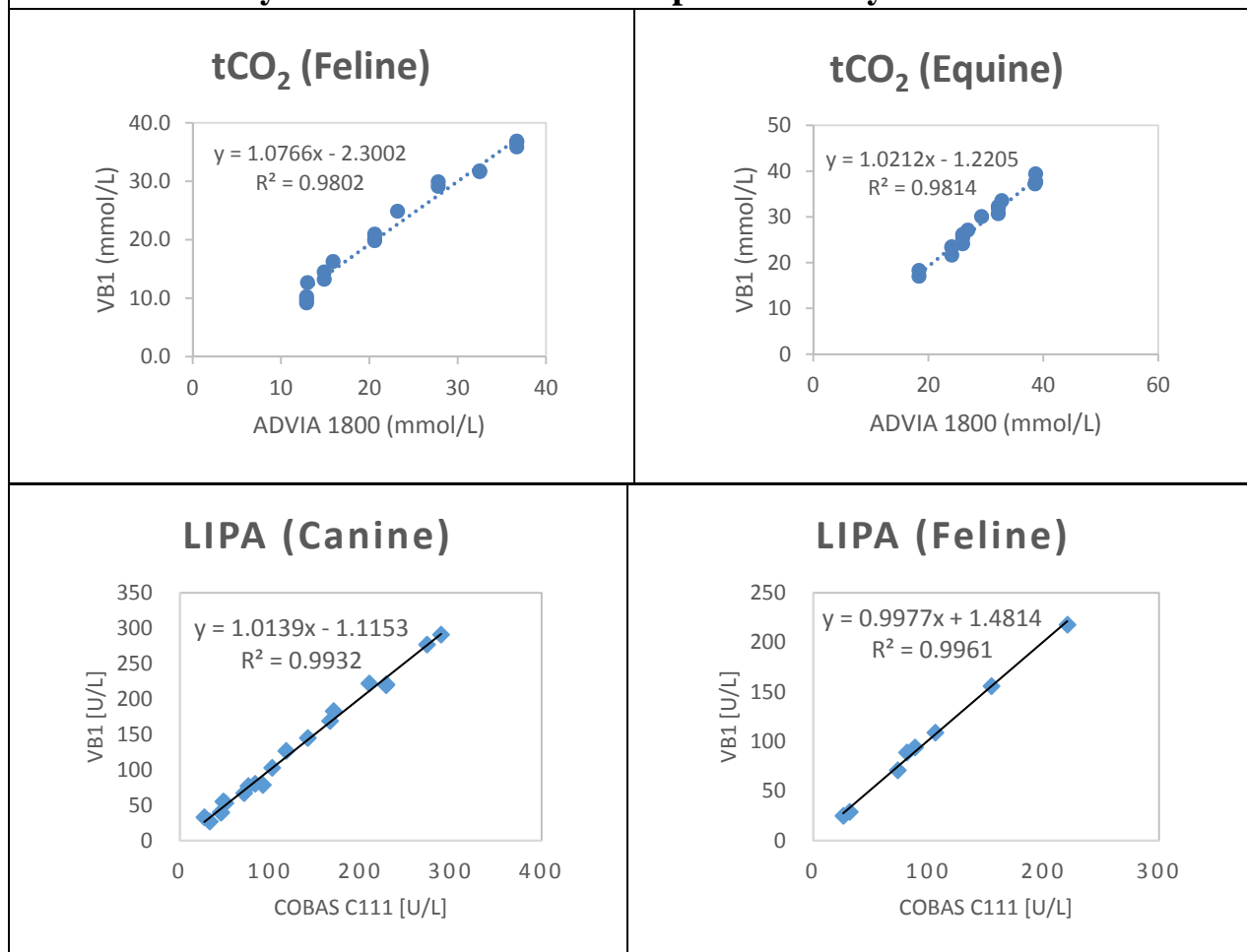
#### UA (Control)



#### tCO<sub>2</sub> (Canine)



### Statistical analysis results of method comparison study



#### ■ Reference Interval

Test Item		Reference Interval		Reference Interval (SI Unit)	
ALB	Canine	2.6-4.6	g/dL	26-46	g/L
	Feline	2.5-4.6	g/dL	25-46	g/L
	Equine	2.1-4.3	g/dL	21- 43	g/L
ALP	Canine	0-212	U/L	0-212	U/L
	Feline	0-111	U/L	0-111	U/L
	Equine	0-326	U/L	0-326	U/L
ALT	Canine	0-88	U/L	0-88	U/L
	Feline	0-116	U/L	0-116	U/L
	Equine	0-43	U/L	0-43	U/L
AMY	Canine	400-1500	U/L	400-1500	U/L
	Feline	500 -1600	U/L	500-1600	U/L

Test Item		Reference Interval		Reference Interval (SI Unit)	
AST	Canine	0-50	U/L	0-50	U/L
	Feline	0-48	U/L	0-48	U/L
	Equine	92-610	U/L	92-610	U/L
BUN	Canine	6.0-26.0	mg/dL	2.1-9.3	mmol urea/L
	Feline	13.0-37.0	mg/dL	4.6-13.0	mmol urea/L
	Equine	10.0-30.0	mg/dL	3.6-10.7	mmol urea/L
Ca	Canine	7.9-12.0	mg/dL	2.0-3.0	mmol/L
	Feline	8.0-12.0	mg/dL	2.0-3.0	mmol/L
	Equine	11.5-14.2	mg/dL	2.9-3.6	mmol/L
Cl	Canine	106-120	mmol/L	106-120	mmol/L
	Feline	112-126	mmol/L	112-126	mmol/L
CPK	Canine	0-200	U/L	0-200	U/L
	Feline	0-314	U/L	0-314	U/L
	Equine	0-350	U/L	0-350	U/L
CREA	Canine	0.4-1.6	mg/dL	35-141	µmol/L
	Feline	0.7-2.0	mg/dL	62-177	µmol/L
	Equine	0.7-2.0	mg/dL	62-177	µmol/L
GGT	Canine	<10	U/L	<10	U/L
	Feline	<10	U/L	<10	U/L
	Equine	0-42	U/L	0-42	U/L
GLU	Canine	70-110	mg/dL	3.9-6.1	mmol/L
	Feline	53-150	mg/dL	2.9-8.3	mmol/L
	Equine	63-163	mg/dL	3.5-9.1	mmol/L
K	Canine	3.5-5.8	mmol/L	3.5-5.8	mmol/L
	Feline	3.5-5.8	mmol/L	3.5-5.8	mmol/L
	Equine	2.5-5.2	mmol/L	2.5-5.2	mmol/L
Na	Canine	138-160	mmol/L	138-160	mmol/L
	Feline	142-164	mmol/L	142-164	mmol/L
	Equine	126-146	mmol/L	126-146	mmol/L
PHOS	Canine	2.5-6.8	mg/dL	0.8-2.2	mmol/L
	Feline	3.1-7.5	mg/dL	1.0-2.4	mmol/L
TBIL	Canine	0-0.9	mg/dL	0-15	µmol/L
	Feline	0-0.9	mg/dL	0-15	µmol/L
	Equine	0-3.5	mg/dL	0-60	µmol/L
TP	Canine	5.2-8.2	g/dL	52-82	g/L
	Feline	5.7-8.9	g/dL	57-89	g/L
	Equine	5.6-7.9	g/dL	56-79	g/L



Test Item	Reference Interval	Reference Interval (SI Unit)
T4	Canine 1.0-4.0 $\mu\text{g/dL}$	12.9-51.5 nmol/L
	Feline 0.8-4.7 $\mu\text{g/dL}$	10.3-60.5 nmol/L
	Equine 1.0-3.8 $\mu\text{g/dL}$	12.9-48.9 nmol/L
CHOL	Canine 110-320 mg/dL	2.8 – 8.3 mmol/L
	Feline 54-220 mg/dL	1.4 – 5.7 mmol/L
BA	Canine <25 $\mu\text{mol/L}$	<25 $\mu\text{mol/L}$
	Feline <25 $\mu\text{mol/L}$	<25 $\mu\text{mol/L}$
	<5 $\mu\text{mol/L}$ Fasting 5.0-15.0 $\mu\text{mol/L}$ 2Hrs Postprandial >25 $\mu\text{mol/L}$ Reduced Liver Function	
tCO <sub>2</sub>	Canine 12-27 mmol/L	12-27 mmol/L
	Feline 15 - 24 mmol/L	15 - 24 mmol/L
	Equine 20-33 mmol/L	20-33 mmol/L
LIPA	Canine 25-125 U/L	25-125 U/L
	Feline 25-35 U/L	25-35 U/L

## Skyla VB1 Single Assay Analytical Performance Evaluation Report

Issue date: 2018 04

### ■ Dynamic Range

Test Item	Dynamic Range	Dynamic Range (SI Unit)
ALB	1.0-6.0 g/dL	10-60 g/L
ALP	41-2000 U/L	41-2000 U/L
ALT	20 - 1100 U/L	20 - 1100 U/L
AMY	22 - 3000 U/L	22 - 3000 U/L
AST	20 - 1000 U/L	20 - 1000 U/L
BUN	2.0 - 140.0 mg/dL	0.7 - 50.0 mmol urea/L
Ca	4.0 - 15.0 mg/dL	1.0 - 3.8 mmol/L
Cl	70 - 140 mmol/L	70 - 140 mmol/L
CPK	40 - 2400 U/L	40 - 2400 U/L
CREA	0.3 - 20.0 mg/dL	27 - 1768 $\mu\text{mol/L}$
GGT	10 - 1500 U/L	10 - 1500 U/L
K	1.5 - 8.5 mmol/L	1.5 - 8.5 mmol/L
Na	110 - 175 mmol/L	110 - 175 mmol/L

PHOS	0.4 - 18.0	mg/dL	0.1 – 5.8	mmol/L
TBIL	0.4 - 30.0	mg/dL	7.0 - 513.0	µmol/L
TP	1.5-10	g/dL	15-100	g/L
TRIG	35 - 600	mg/dL	0.4 – 6.8	mmol/L
CHOL	50 - 540	mg/dL	1.3 – 14.0	mmol/L
LAC	2.7 - 90	mg/dL	0.3 – 10	mmol/L
LIPA	25-300	U/L	25-300	U/L
UPRO	20 - 200	mg/dL	0.2 – 2.0	g/L
UCRE	10-500	mg/dL	884-44,200	µmol/L

### ■ Analytical Specificity (Interference study)

Physiological interferences in blood include hemolysis, icterus, and lipemia. For every test item, 2 Levels serum or urine pool supplemented with known concentrations of the endogenous substances were used for the testing. Significant interference is defined as a >20% shift in the test result. (Note: Highest tested concentration for Hemoglobin: 600 mg/dL; Bilirubin (unconjugated): 62.5 mg/dL, Bilirubin (conjugated): 57.5 mg/dL; Intralipid: 0.55%)

Test Item	Substance concentration with interferences of less than 20%			
	Hemoglobin	Bilirubin (unconjugated)	Bilirubin (conjugated)	Intralipid
ALB	600 mg/dL	46.7 mg/dL	48.4 mg/dL	0.4%
ALP	600 mg/dL	46.7 mg/dL	48.4mg/dL	0.4%
ALT	600 mg/dL	46 mg/dL	42.7 mg/dL	0.1%
AMY	600 mg/dL	54.3 mg/dL	33.3 mg/dL	0.4%
AST	200 mg/dL	50 mg/dL	12.6 mg/dL	0.2%
BUN	600 mg/dL	53.9 mg/dL	51.3 mg/dL	0.3%
Ca	600 mg/dL	56.3 mg/dL	57.5 mg/dL	0.3%
Cl	600 mg/dL	53.1 mg/dL	34.7 mg/dL	0.2%
CPK	600 mg/dL	50.9 mg/dL	51.3 mg/dL	0.2%
CREA	600 mg/dL	56 mg/dL	13.8 mg/dl	0.4%
GGT	454 mg/dL	17.0 mg/dL	17.0mg/dL	271 mg/dL
K	100 mg/dL	33.5 mg/dL	22.8 mg/dL	0.15%
Na	600 mg/dL	43.3 mg/dL	33.5 mg/dL	0.4%
PHOS	500 mg/dL	42.1 mg/dL	57.5 mg/dL	0.13%
TBIL	400 mg/dL	---	---	0.1%
TP	600 mg/dL	46.7 mg/dL	48.4 mg/dL	0.4%
TRIG	360 mg/dL	8.6 mg/dL	8.8 mg/dL	---
CHOL	600 mg/dL	40.2 mg/dL	40.2 mg/dL	0.4%
LAC	250 mg/dL	28.3 mg/dL	16.5 mg/dL	0.2%
LIPA	200 mg/dL	29.0 mg/dL	20.2 mg/dL	0.2%
UPRO	100 mg/dL	---	6.3 mg/dL	---
UCRE	900 mg/dL	---	13.2 mg/dL	---

## ■ Method Comparison

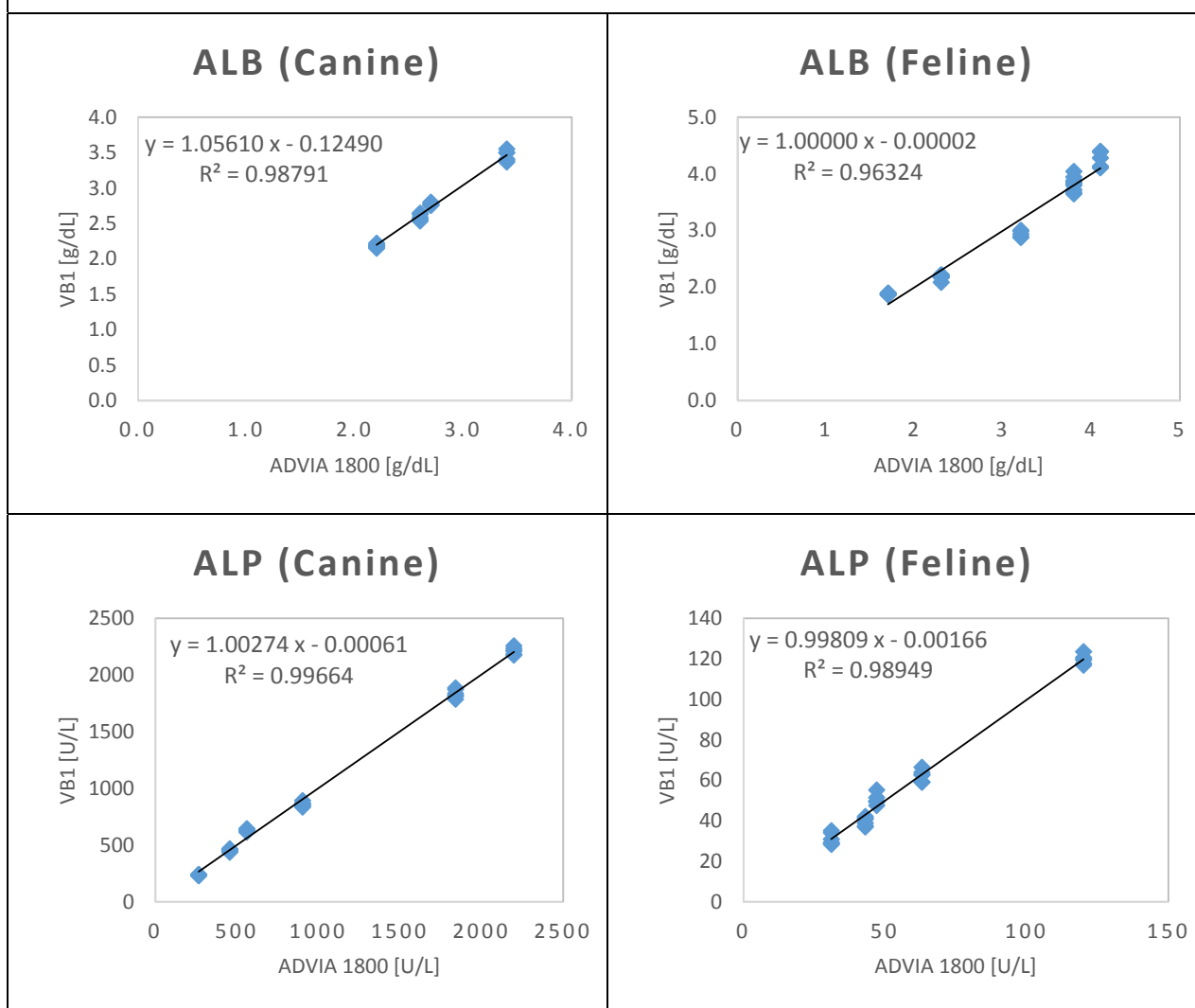
The SIMENS ADVIA 1800 was used as comparative method in the study. The tests are performed by using the same clinical serum or urine sample for two methods. Correlation between two methods can be determined through statistical analysis.

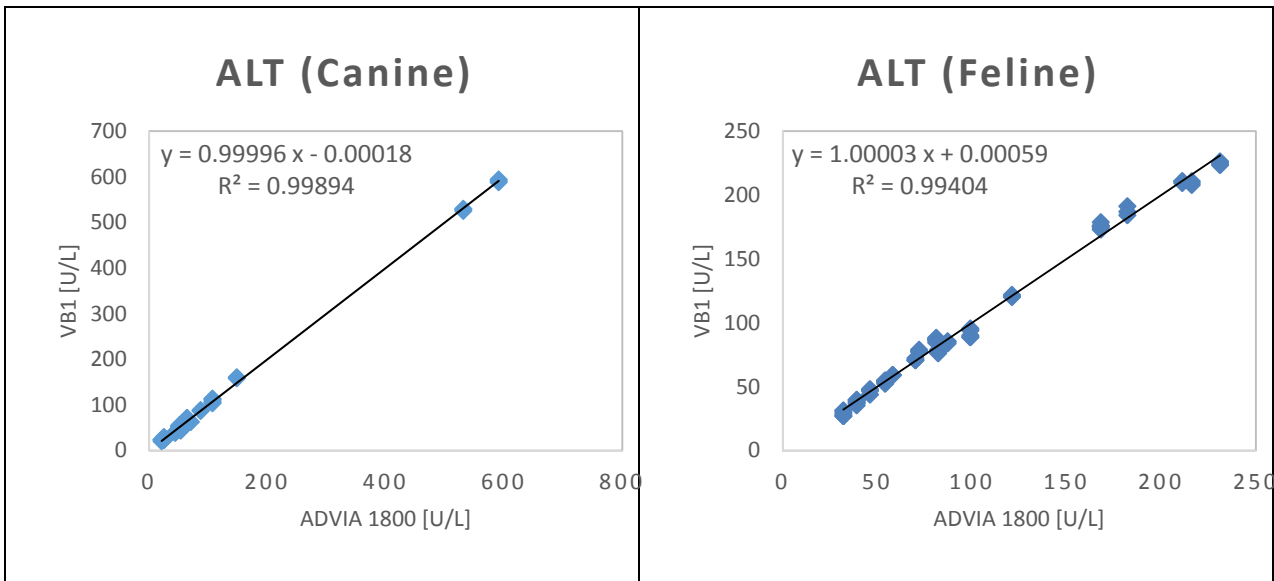
\* The Cobas b111 was used as comparative method for LIPA kit.

Marker		R <sup>2</sup>	Slope	Intercept	Sample No.	Sample Range
ALB	Canine	0.98791	1.0561	-0.12490	24	2.2-3.4 g/dL
	Feline	0.96324	1.00000	- 0.00002	36	1.7-4.1 g/dL
ALP	Canine	0.99664	1.00274	-0.00061	36	265-2198 U/L
	Feline	0.98949	0.99809	-0.00166	30	31-120 U/L
ALT	Canine	0.9989	0.99996	-0.00018	60	21-591 U/L
	Feline	0.9940	1.00003	0.00059	69	32-231 U/L
AMY	Canine	0.9956	0.9840	11.511	17	501-2603 U/L
	Feline	0.9991	0.9490	35.441	8	445-3061 U/L
AST	Canine	0.9880	0.8913	10.285	11	25-207 U/L
	Feline	0.9870	1.0993	- 1.2087	10	17-297 U/L
BUN	Canine	0.9936	1.0048	-0.4669	56	35.7-133 mg/dL
	Feline	0.9907	0.9987	2.3037	30	36-149.3 mg/dL
Ca	Canine	0.982	0.9497	0.7324	48	7.5-14.8 mg/dL
	Feline	0.9807	0.9597	0.2797	34	6.8-14.7 mg/dL
Cl	Canine	0.9814	1.0011	0.0637	36	85-138 mmol/L
	Feline	0.9806	0.9545	5.813	26	96-137 mmol/L
CPK	Canine	0.9939	1.01033	-0.25329	29	88-1027 U/L
	Feline	0.9944	0.9931	0.007	36	89-618 U/L
CREA	Canine	0.9964	0.9971	- 0.0485	11	0.6-8.49 mg/dL
	Feline	0.9901	1.0095	0.0258	9	0.65-8.17 mg/dL
GGT	Canine	0.9994	0.9916	1.9574	19	10-281 U/L
	Feline	0.9993	0.9958	1.1017	13	16-286 U/L
K	Canine	0.9821	0.9909	0.0415	48	3.4-7.4 mmol/L
	Feline	0.9804	0.9922	0.0277	48	3.2-7.4 mmol/L
Na	Canine	0.9938	0.9792	3.5253	41	132-173 mmol/L
	Feline	0.9808	0.9338	+10.4229	49	134-175 mmol/L
PHOS	Canine	0.9905	1.0095	0.011	50	3.7-12.3 mg/dL
	Feline	0.9877	0.9809	0.212	50	4.8-13.7 mg/dL
TBIL	Canine	0.99934	1.00266	-0.0445	33	0.3-22.7 mg/dL
	Feline	0.99932	1.00354	-0.0618	33	0.4-24.0 mg/dL
TP	Canine	0.99921	1.00003	0.00000	30	4.3-8.2 g/dL
	Feline	0.97668	1.00003	0.00001	30	4.5-9.2 g/dL
TRIG	Canine	0.98473	0.97836	0.68096	25	46-332 mg/dL
	Feline	0.9879	0.94371	7.65434	16	55-219 mg/dL
CHOL	Canine	0.98313	1.02307	- 3.20047	21	66-291 mg/dL

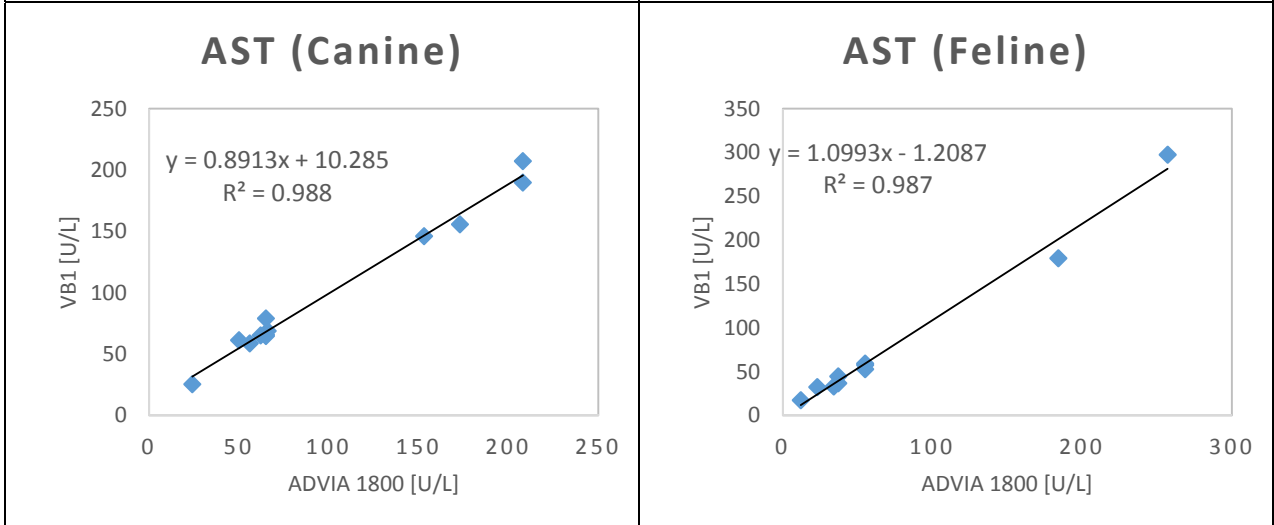
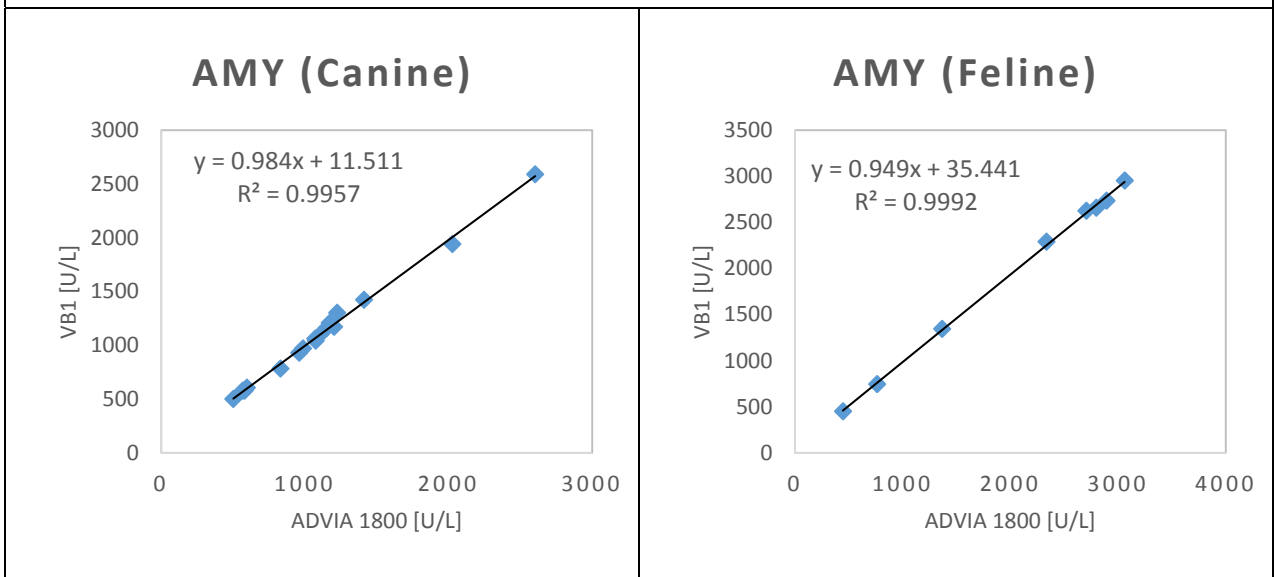
Marker		R <sup>2</sup>	Slope	Intercept	Sample No.	Sample Range
LAC	Feline	0.98474	1.03797	- 6.23016	23	76-236 mg/dL
	Canine	0.9935	1.1021	-0.0978	40	3.3-10.6 mmol/L
	Feline	0.995	0.9703	0.1839	40	3.2-10.9 mmol/L
LIPA*	Canine	0.9848	1.0422	-5.054	10	27-289 U/L
	Feline	0.9976	1.0134	-2.2148	7	26-220 U/L
UPRO	Canine	0.98623	1.00053	- 0.00042	30	2.7-144.7 mg/dL
	Feline	0.98113	1.00402	- 0.18352	18	4.5-69.0 mg/dL
UCRE	Canine	0.9989	0.9886	2.247	17	10-295 mg/dL
	Feline	0.997	0.9965	0.012	7	37-477 mg/dL

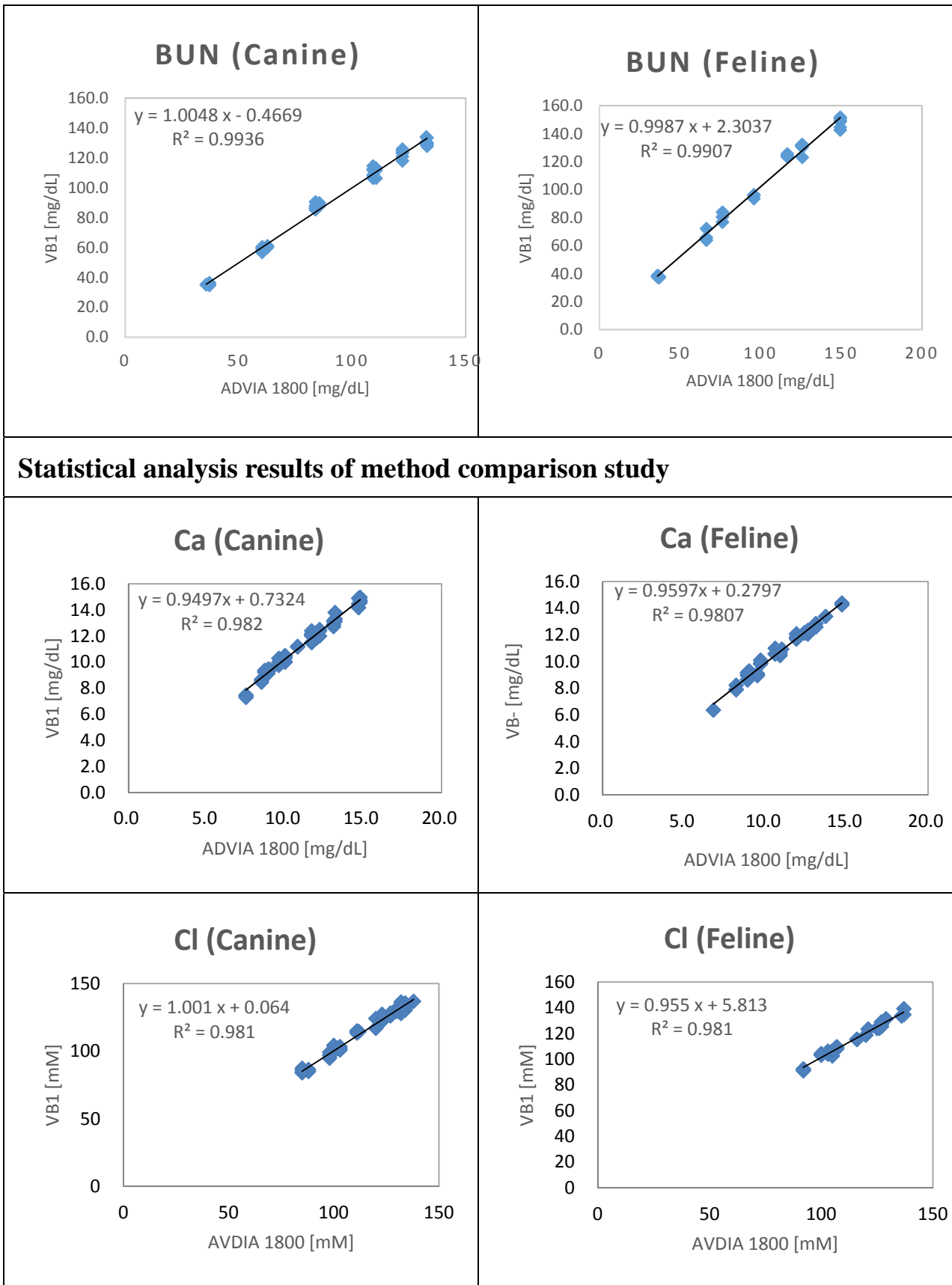
### Statistical analysis results of method comparison study

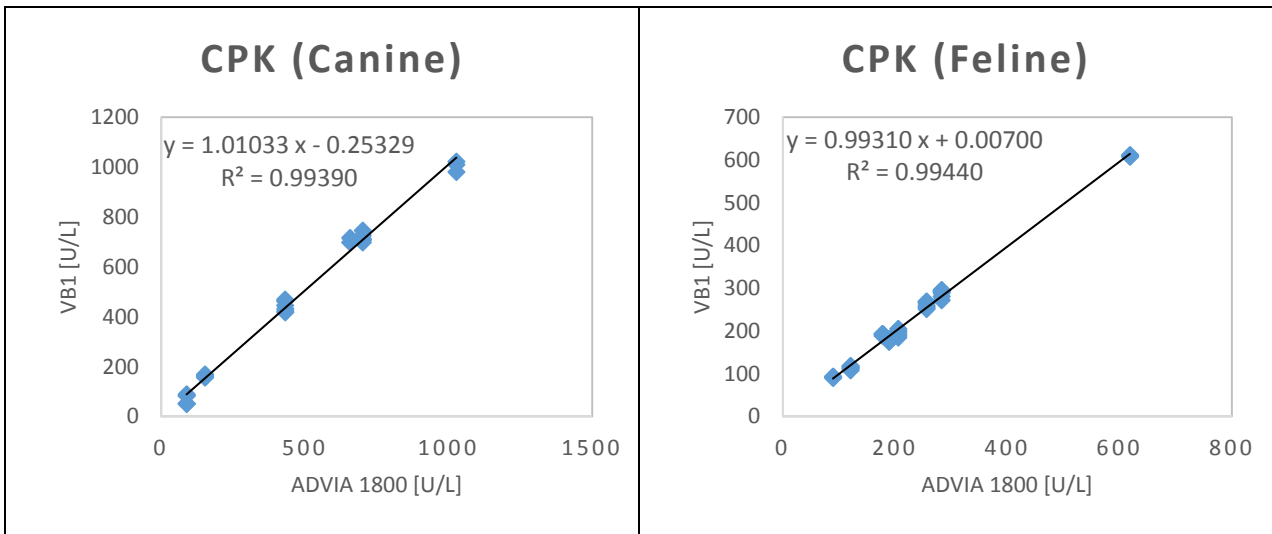




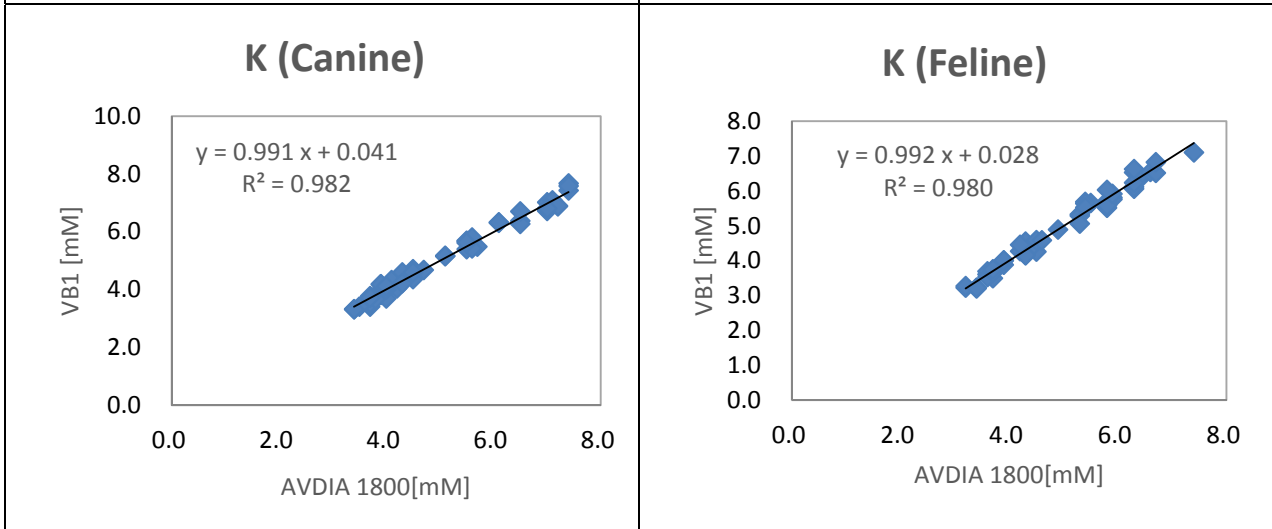
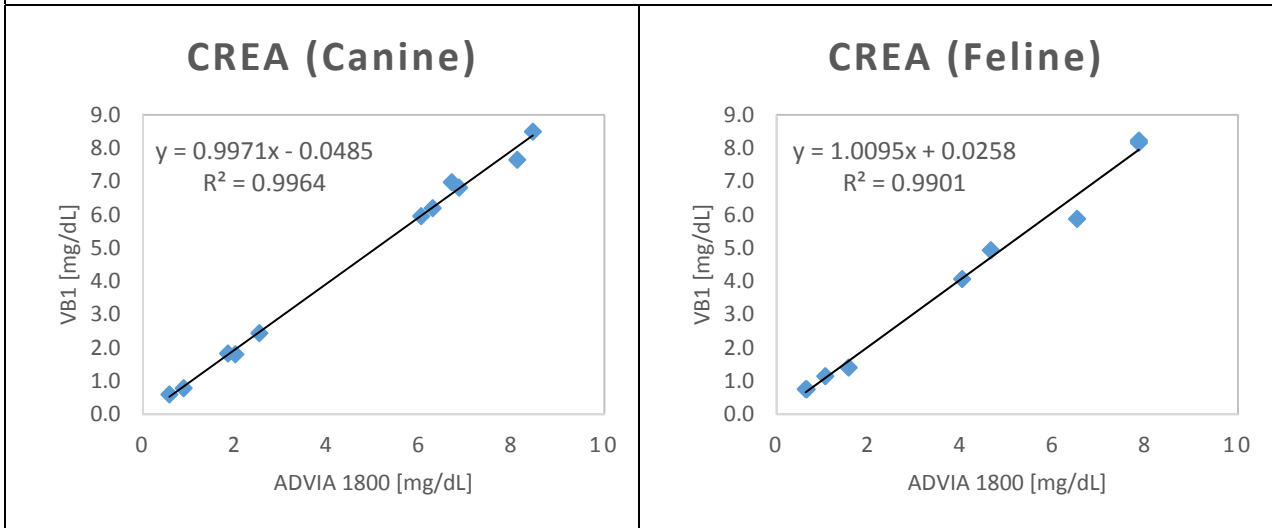
### Statistical analysis results of method comparison study

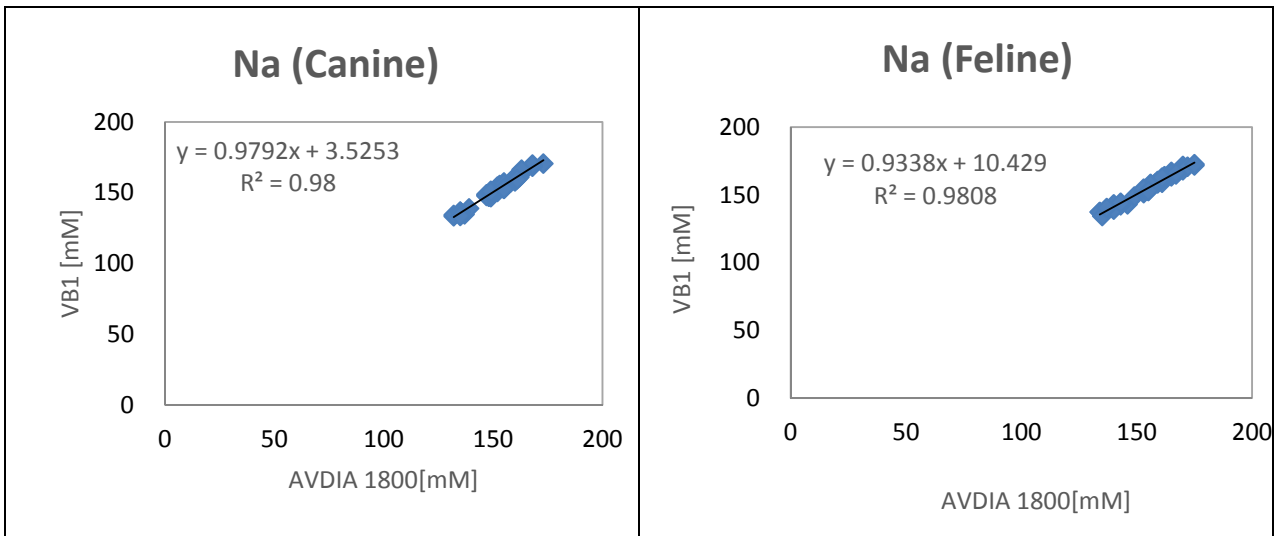




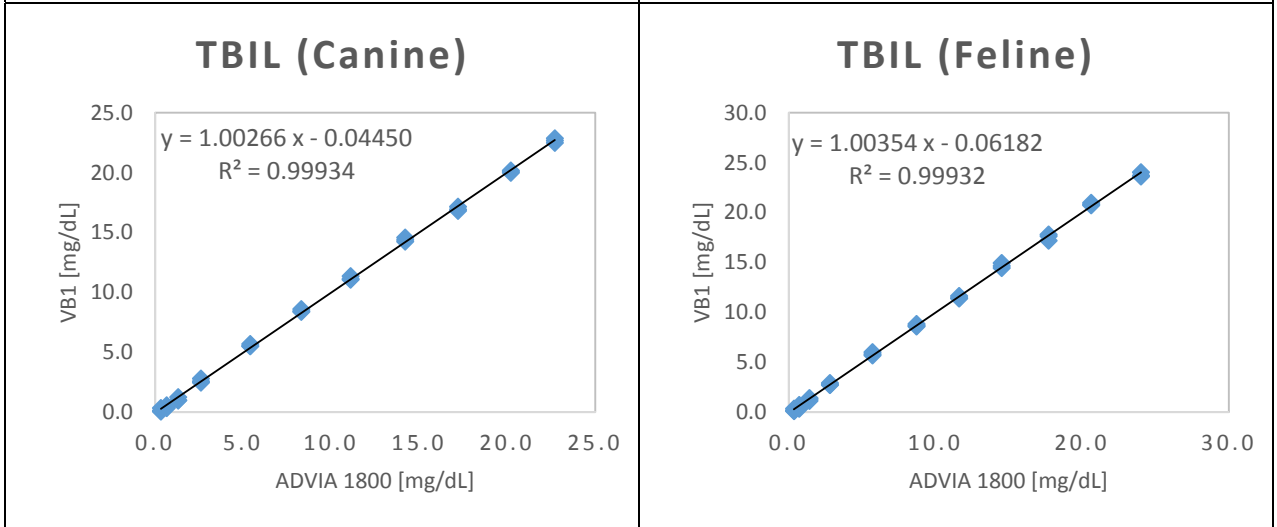
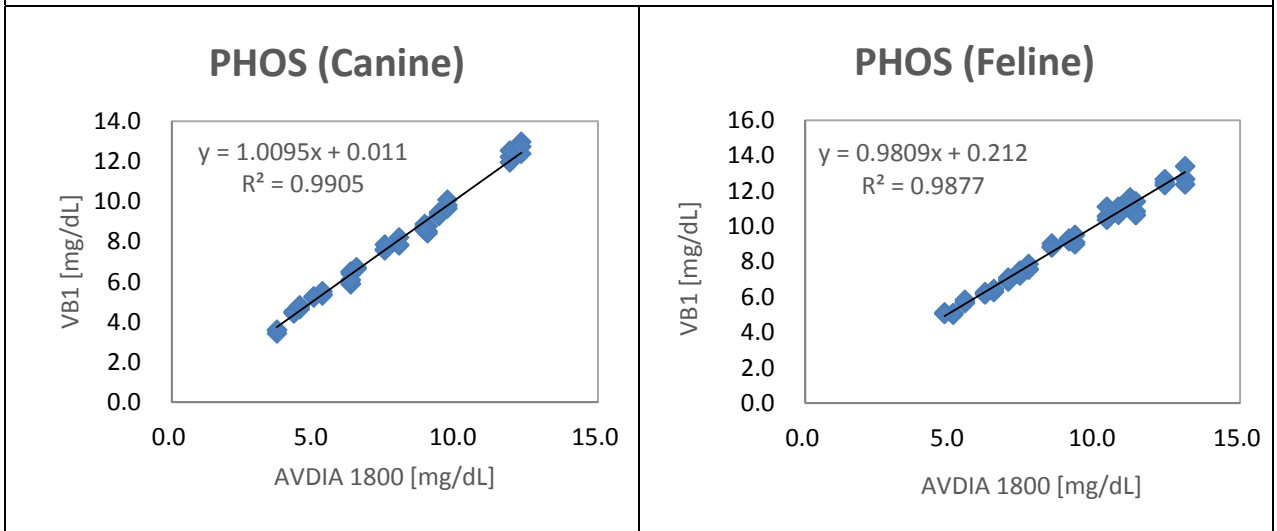


### Statistical analysis results of method comparison study

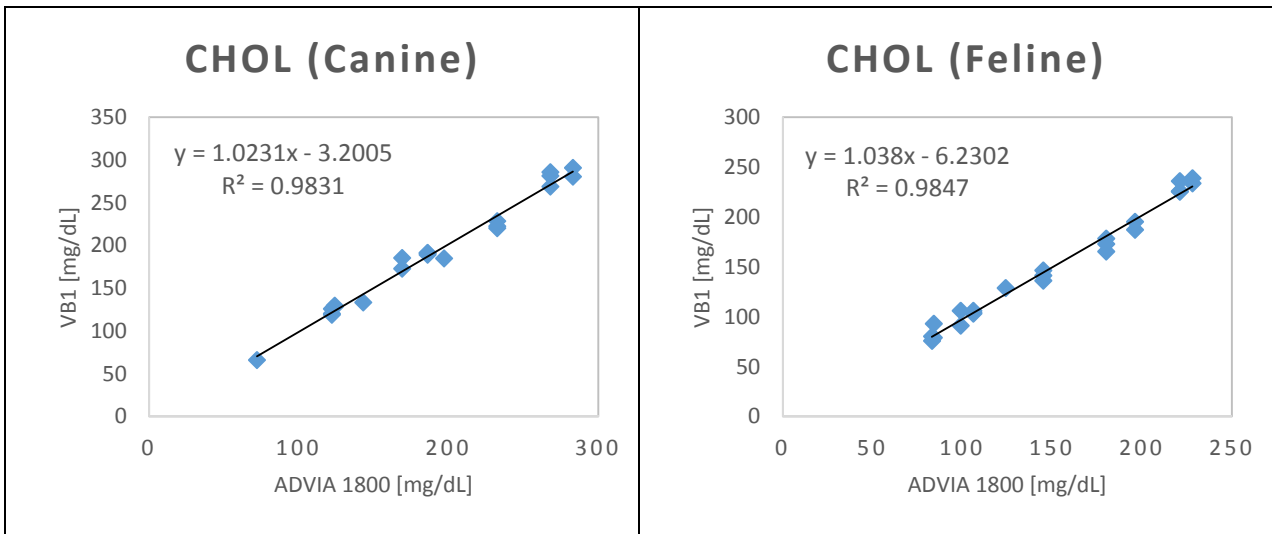




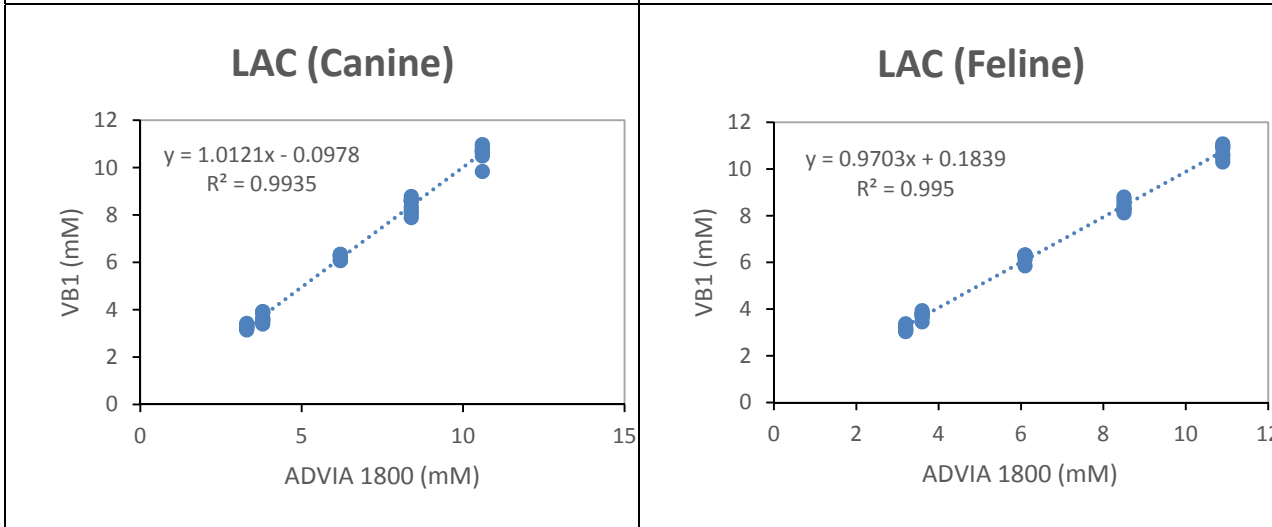
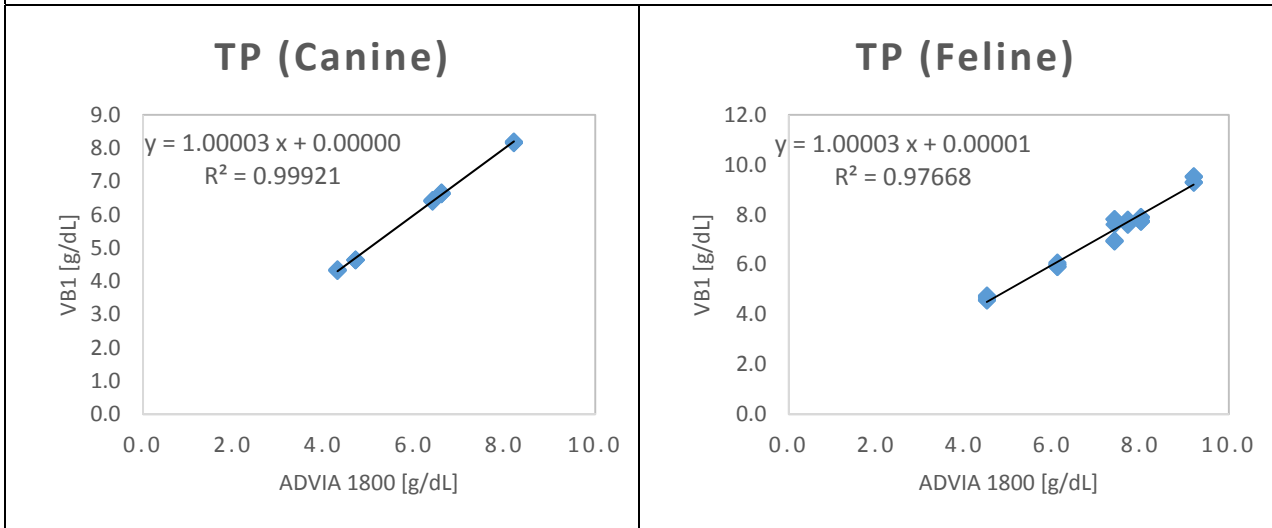
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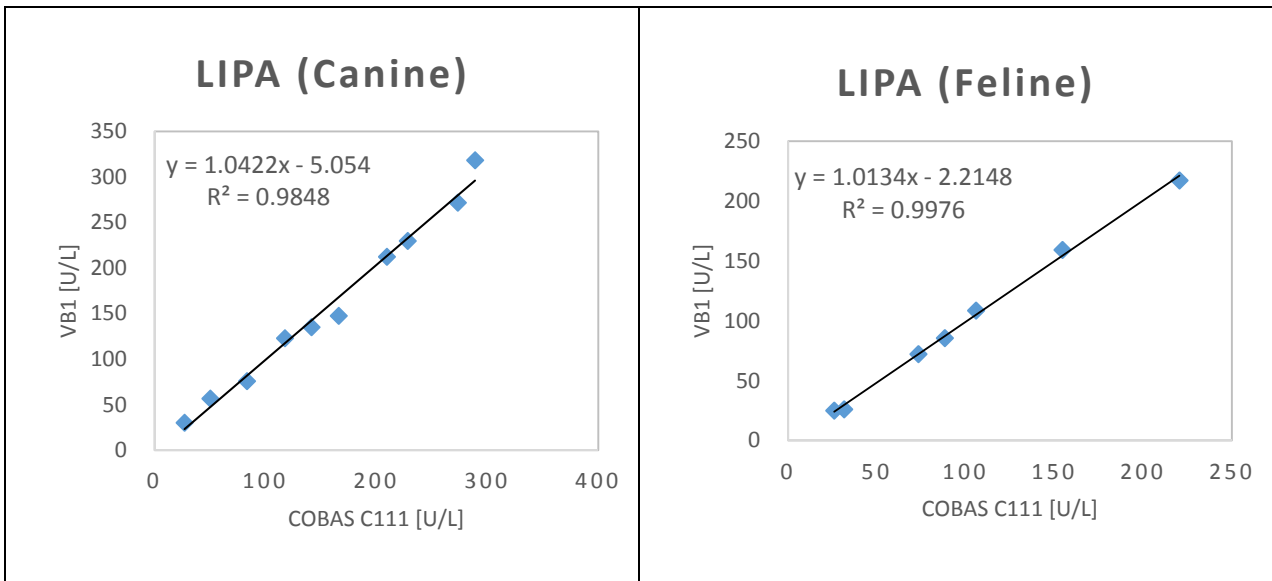




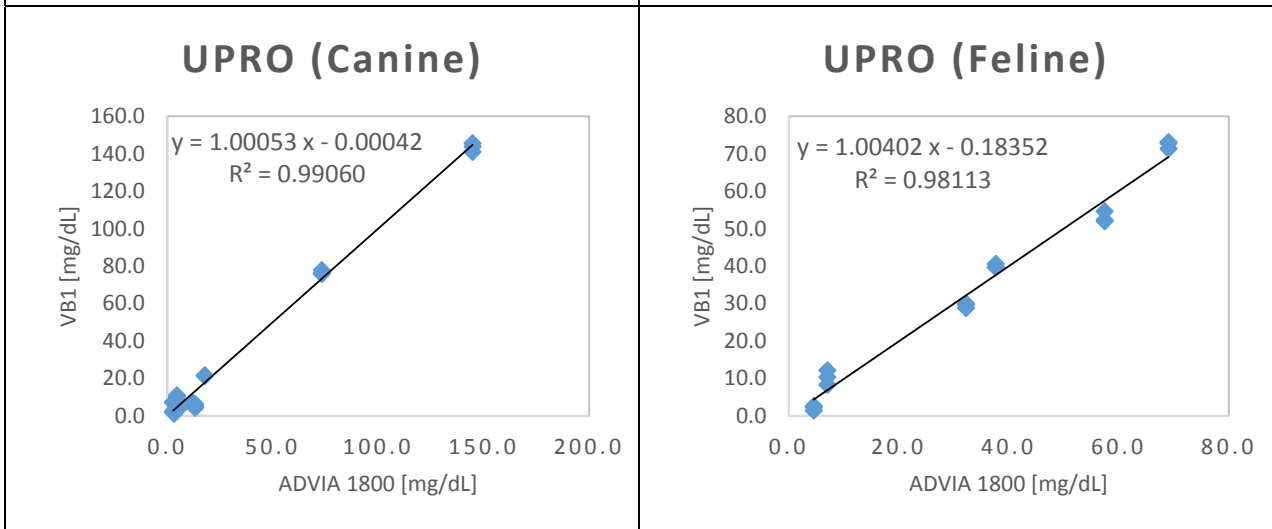
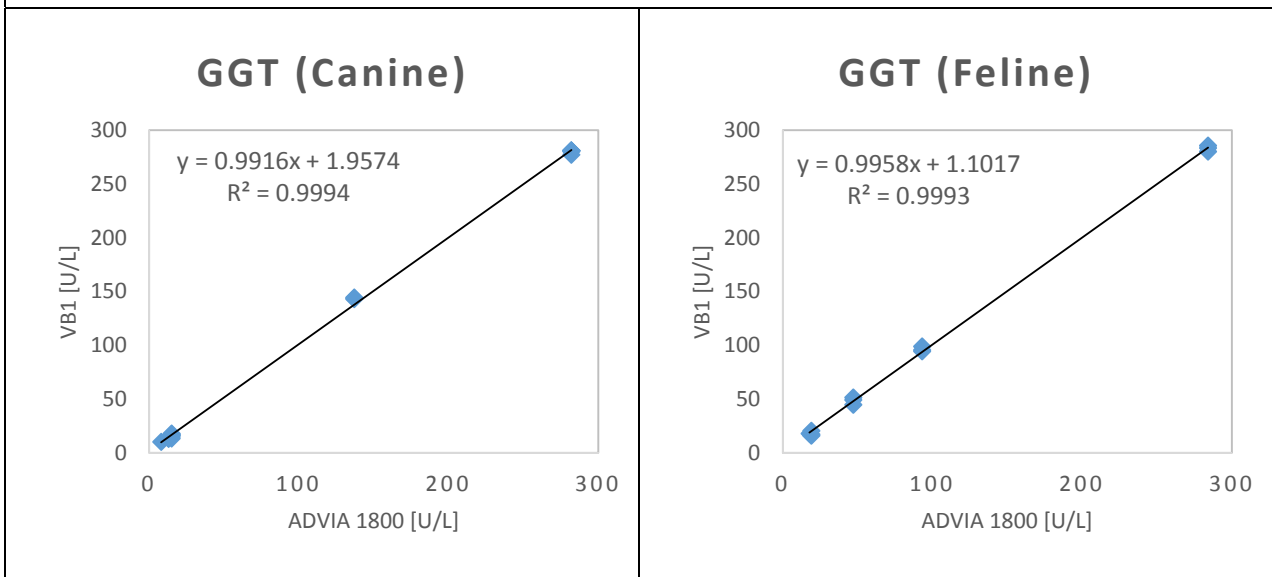


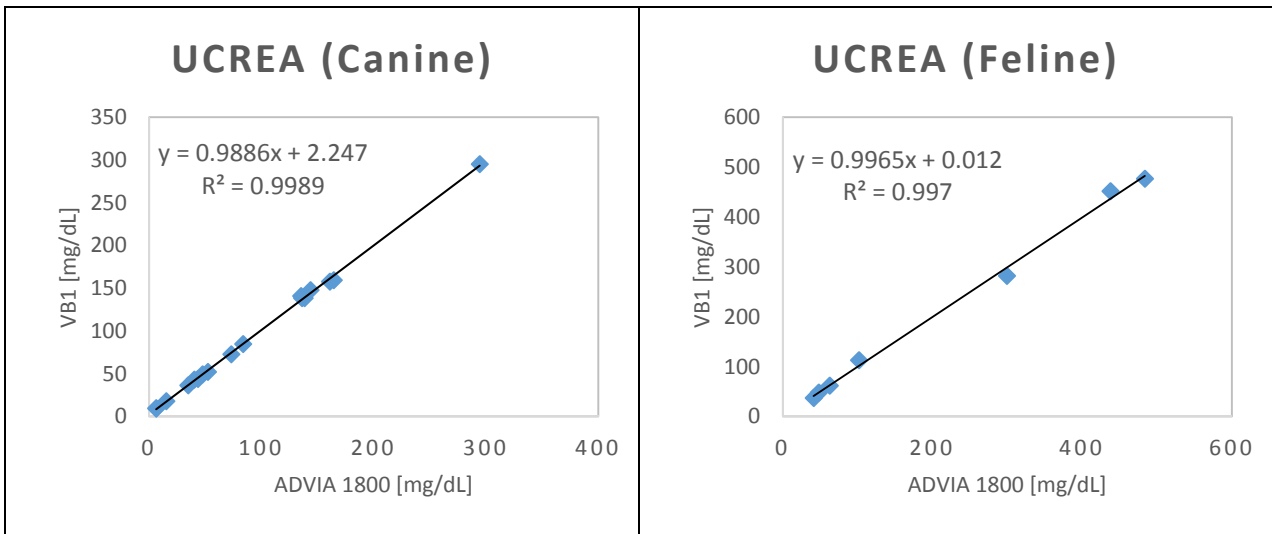
### Statistical analysis results of method comparison study





### Statistical analysis results of method comparison study





**Statistical analysis results of method comparison study**

