

skyla

Equine Panel



PN: 900-150

For Veterinary In Vitro Diagnostic Use Only Rev: E

1. Intended Use

The skyla Equine Panel used with skyla Analyzer, is intended to be used for the quantitative determination of Albumin (ALB), Alkaline Phosphatase (ALP), Aspartate Aminotransferase (AST), Blood Urea Nitrogen (BUN), Calcium (Ca), Creatine Phosphokinase (CPK), Creatinine (CREA), Gamma-Glutamyl Transpeptidace (GGT), Glucose (GLU), Sodium (Na), Potassium (K), Total bilirubin (TBIL), Total Protein (TP), and Total Carbon Dioxide (tCO₂) in animal whole blood, plasma, or serum. The calculated values of Globulin (GLOB), Albumin/Globulin Ratio (A/G Ratio), Blood Urea Nitrogen/Creatinine Ratio (B/C Ratio), Sodium/Potassium Ratio (Na/K Ratio), Corrected Calcium(C-Ca) and UREA can then be obtained.

2. Principles

The skyla Equine Panel contains a total of 14 types of dried reagents located in the respective detection wells of the reagent disc. The user only needs to inject the blood specimens into the sample port of the disc, and then places the disc into the analyzer. The test will be done automatically within 15 minutes. Three additional calculated values are also obtained after the test. For the detail description of disc, please refer to "skyla Analyzer Operator's Manual".

Clinical Significance:

Albumin (ALB): ALB is one of the indicators for kidney function, liver function and dehydration.

Alkaline phosphatase (ALP): ALP is one of the indicators for liver and biliary related diseases.

Aspartate Aminotransferase (AST): AST is a marker to examine hepatobiliary diseases and the degree of myocardium injury.

Blood Urea Nitrogen (BUN): BUN is one of the important markers for diagnosis and prognosis tracking of kidney diseases

Calcium (Ca): Ca can be used to detect parathyroid-related • bone diseases, chronic kidney diseases

and tetany of vitamin D deficiency.

Creatine Phosphokinase (CPK): CPK can be used for the diagnosis of muscle damage, convulsions, heart disease; hypothyroidism; severe exercise, physical inactivity, decreased muscle mass.

Creatinine (CREA): CREA is a marker to examine renal functions.

Gamma-Glutamyl Transpeptidace (GGT): GGT can be used for the diagnosis of liver disease, primary and secondary liver tumors.

Glucose (GLU): GLU can be used for the diagnosis of diabetes and diseases related to the carbohydrate metabolism.

Sodium (Na): Na is one of indicators for fluid and electrolyte balance. It can be used to evaluate the disorders of vomiting, diarrhea, dehydration and Addison's disease.

Potassium (K): K is one of indicators for fluid and electrolyte balance. It can be used to evaluate the disorders of vomiting, diarrhea, dehydration and Addison's disease.

Total bilirubin (TBIL): TBIL can be used for the diagnosis of obstructive liver diseases and hepatobiliary diseases.

Total Protein (TP): TP is an indicator for function of liver synthesis and the degree of protein-losing caused by kidney diseases.

Total Carbon Dioxide (tCO₂): tCO₂ in blood includes carbon dioxide, bicarbonate, carbonate, and carbonic acid. It is an indicator for metabolic acidosis or metabolic alkalosis.

Globulin (GLOB): GLOB is calculated from TP and ALB and it is used to assess liver function.

Albumin/Globulin Ratio (A/G Ratio): The A/G Ratio is the ALB and GLOB ratio. It is used to assess liver function.

Blood Urea Nitrogen/ Creatinine Ratio (B/C Ratio): The B/C Ratio may indicate the degree of kidney injury and azotemia.

Sodium / Potassium Ratio (Na/K Ratio): Na/K Ratio may indicate the kidney stress, hyperaldosteronism and Addison's disease.

Corrected Calcium (C-Ca): C-Ca is calculated from Ca and ALB and it is used to assess Hypocalcaemia.

UREA: UREA is synthesized in the liver and secreted by the kidneys. Urea is the end product of protein nitrogen metabolism and is the primary vehicle for removing toxic ammonia from the body. The analysis of urea is an important clinical test for renal disease and dysfunction.

Method:

ALB

ALB is determined through the endpoint chemical reaction method. When ALB binding to Bromocresol Green (BCG), it forms a yellow-green complex. The absorbance at a wavelength of 600 nm can be measured. The amount of ALB in the sample is proportional to the bound ALB.

ALP

ALP activity is enzymatically determined. *p*-Nitrophenyl Phosphate that is hydrolyzed by ALP into a yellow colored product *p*-Nitrophenol which has an absorbance at a wavelength of 405 nm. The rate of the reaction is directly proportional to the enzyme activity.

AST

AST activity is enzymatically determined. When the test sample reacts with the substrate-enzyme reagent, AST converts L-Aspartic Acid and α -Ketoglutarate into Monosodium Glutamate and Amide Acetate. Amide Acetate is subsequently converted into Malate by Malate Dehydrogenase while NADH undergoes oxidation to NAD. The decrease of NADH absorbance is measured at a wavelength of 340 nm and is proportional to AST activity.

BUN

BUN is enzymatically determined. Urea undergoes an Urease catalyzed hydrolysis, thus producing Ammonia and Carbon Dioxide. In a Glutamate Dehydrogenase (GLDH) catalyzed reaction, Ammonia reacts with 2-Oxoglutarate yielding L-Glutamate. In the process of this reaction, β -Nicotinamide Adenine Dinucleotide (NADH) is oxidized to β -Nicotinamide Adenine Dinucleotide (NAD+) which in turn undergoes a color reaction. The rate of change of absorbance at a wavelength of 340 nm is measured and proportional to the BUN concentration.

Ca

Ca is determined through the endpoint chemical reaction approach. Calcium reacts with Arsenazo III and form a purple-colored complex. The complex formation is measured at a wavelength of 650 nm and is proportional to the amount of Ca in the sample.

CPK

CPK is enzymatically determined. CPK catalyzes the Creatine Phosphate and ADP to form a Creatine and ATP. Then Hexokinase catalyzed the Glucose and ATP, produces the D-Glucose-6-Phosphate (G-6-P). In the presence of NAD, G-6-PD converts G-6-P into 6-Phosphogluconate and NADH. The absorbance at the wavelength of 340 nm can be measured in the presence of NADH. The absorbance is proportional to the CPK concentration.

CREA

CREA is determined through the endpoint enzymatic reaction approach. Creatinine Amidohydrolase hydrolyzes CREA to Creatine. Then Creatine is converted into Sarcosine through catalysis of Creatine Amidinohydrolase. Furthermore, Sarcosine Oxidase oxidizes Sarcosine, yielding Glycine, Formalehyde and Peroxide (H₂O₂) in the process. The enzyme Peroxidase processes Hydrogen Peroxide, 2,4,6-3 Hydroxy-Benzoic Acid (TBHBA) and 4-Aminoantipyrine (4-AAP), forming a Quinoneimine dye as a product. The dye formation is measured at a wavelength of 546 nm and is proportional to the amount of CREA in the sample.

GGT

GGT is enzymatically determined. GGT catalyzes the reaction between L-γ-Glutamyl-3-Carboxy-

4-Nitroanilide and Gly-Gly, and cause the formation of L-γ-Glutamyl-Glycylgycine and 5-Amino-2-Nitrobenzoate with yellow color. The rate of liberation of 5-Amino-2 Nitrobenzoate is directly related to the GGT activity in the sample and is quantitated by measuring the increase in absorbance at wavelength of 405 nm.

GLU

GLU is determined through the endpoint enzymatic reaction approach. The Sucrose is catalyzed by Hexokinase to D-Glucose-6-Phosphate (G-6-P). In the presence of NAD, G-6-PD converts G-6-P into 6- Phosphogluconate and NADH. The absorbance at a wavelength of 340 nm can be measured in the presence of NADH. The absorbance is proportional to the GLU concentration.

<u>K</u>

K is enzymatically determined. Pyruvate Kinase (PK) dephosphorylates Phosphoenolpyruvate (PEP) to form Pyruvate. Then the Pyruvate converts to Lactate under catalysis of Lactate Dehydrogenase (LDH). At the same time, NADH is oxidized to NAD+ which in turn undergoes a color reaction. The rate of change of absorbance at wavelength of 340 nm is measured and proportional to the potassium in the sample.

Na

Na is enzymatically determined. By going through the activation of β -Galactosidase with Na ion, o-Nitrophenyl- β -Galactopyranoside (ONPG) is further catalyzed by activated β -Galactosidase, form o-Nitrophenol and Galactose. The absorbance caused by o-Nitrophenol is measured at a wavelength of 405 nm and is proportional to the amount of Na in the sample.

TBIL

TBIL is determined by the vanadate oxidation method. In a pH3 buffer system, TBIL undergoes oxidation forming Biliverdin. The absorbance at a wavelength of 450 nm is measured and proportional to the total bilirubin concentration in the sample.

TP

TP is determined by the Biuret method. The peptide bonds of the protein react with copper ions in an alkaline environment and form a purple compound. The color development is proportional to the original TP concentration and is measured at a wavelength of 546 nm.

tCO2

tCO₂ is enzymatically determined. It converts all forms of carbon dioxide (CO₂) toward bicarbonate (HCO₃⁻) and phosphoenolpyruvate carboxylase (PEPC) makes HCO₃⁻ reacts with Phosphoenolpyruvate (PEP) to form oxaloacetate and phosphate. Malate dehydrogenase (MDH) converted nicotinamide adenine dinucleotide (NADH) to NAD⁺ and malate in the presence of oxaloacetate. The rate of conversion in absorbance 340 nm is directly proportional to the amount of tCO₂ in the sample.

Reaction pathway:

ALB

<u>ALP</u>

$$p$$
-Nitrophenyl Phosphate $\longrightarrow p$ -Nitrophenol + Phosphate

<u>AST</u>

BUN

Urease Urea +
$$H_2O \longrightarrow 2NH_3 + CO_2$$

$$NH_3 + 2\text{-Oxoglutarate} + NADH \xrightarrow{GLDH} L\text{-Glutamate} + H_2O + NAD^+$$

Ca

$$Ca^{2+} + Arsenazo III \longrightarrow Ca^{2+} - Arsenazo III Complex$$

CPK

$$\frac{}{\text{CPK}}$$
Creatine Phosphate + ADP \longrightarrow Creatine + ATP

D-Glucose-6-Phosphate + NAD
$$\xrightarrow{\text{G-6-PDH}}$$
 6- Phosphogluconate + NADH + H⁺

CREA

$$\begin{array}{c} \text{Creatinine Amidohyrolase} \\ \text{Creatinine} + H_2O \xrightarrow{\hspace{1cm}} \text{Creatine} \end{array}$$

$$\begin{array}{c} & \text{Creatine Amidohyrolase} \\ \text{Creatine} + H_2O \xrightarrow{\hspace*{4cm}} \text{Sarcosine} + \text{Urea} \end{array}$$

$$\begin{array}{c} Peroxidase \\ H_2O_2 + TBHBA + 4\text{-}AAP \xrightarrow{\hspace*{1cm}} Red \ Quinoneimine \ Dye + H_2O \end{array}$$

GGT

GGT L-γ-Glutamyl-3-Carboxy-4-Nitroanilide + Glycylglycine — L-γ-Glutamylglycylglycine

+ 5-Amino-2-Nitrobenzoate

GLU

G-6-PDH

K

$$K^+$$
, PK
$$ADP + PEP \xrightarrow{} \longrightarrow Pyruvate + ATP$$

Pyruvate + NADH + H^+ \longrightarrow Lactate + NAD^+

<u>Na</u>

$$\begin{array}{c} Na^+ \\ \text{β-Galactosidase} + ONPG & \longrightarrow Galactose + o\text{-Nitrophenol} \end{array}$$

TBIL

Bilirubin + Surfactant + VO₃ → Biliverdin

TP

Total protein +
$$Cu^{2+}$$
 $\xrightarrow{}$ Cu -Protein Complex

PHOS

$$SP$$
Sucrose + Pi $\longrightarrow \alpha$ -D-Glucose-1-Phosphate + D-Fructose

$$\begin{array}{c} PGM \\ \hline \alpha\text{-D-Glucose-1-Phosphate} & \hline \longrightarrow \alpha\text{-D-Glucose-6-Phosphate} \end{array}$$

$$\begin{array}{c} \text{G6PDH} \\ \text{α-D-Glucose-6-Phosphate} + \text{NAD}^+ \xrightarrow{} \text{6-Phospho-D-Gluconate} + \text{NADH} + \text{H}^+ \end{array}$$

 tCO_2

$$PEPC$$
 $HCO_3^- + PEP \longrightarrow oxaloacetate + phosphate$

oxaloacetate + NADH +
$$H^+ \xrightarrow{MDH}$$
 Malate + NAD⁺

3. Reagents

Included:

Each panel contains dried reagent beads, dried internal QC beads and the diluent.

Reagent Composition:

Composition	Quantity/Panel
4-Nitrophenyl phosphate disodium salt	0.1 mg
4-APP	0.02 mg
Adenosine 5'-monophosphate disodium salt	0.05 mg
ADP	0.05 mg
Arsenazo Ⅲ	0.007 mg
Bromocresol Green sodium salt	5.4 ug
Copper sulphate	0.1 mg
Creatinase	2.8 U
Creatine Phosphate	0.3 mg
Creatininase	5.6 U
D-Glucose	0.1 mg
G6PDH	0.28 U
Glutamate Dehydrogenase	0.05 U
Glycylglycine	0.38 mg
Hexokinase	0.2 U
Lactate Dehydrogenase	0.6 U
L-Aspartic Acid	1 mg
LNAC	0.1 mg
Magnesium Acetate	0.05 mg
Malate Dehydrogenase	0.095 U
Monosodium Phosphoenolpyruvate	0.042 mg
NAD	0.08 mg
NADH	0.109 mg
ONPG	0.04 mg
Peroxidase	0.1 U
phosphoenolpyruvate carboxylase	0.009 U
Phospho(enol)pyruvic acid monosodium salt hydrate	0.02 mg
Pyruvate Kinase	0.05 U
Sarcosine Oxidase	0.4 U
Sodium Metavanadate	0.01 mg
ТВНВА	0.2 mg
Urease	0.03 U
α-Ketoglutaric Acid	0.05 mg
β-Galactosidase	0.3 U
L-γ-Glutamyl-3-Carboxy-4-Nitroanilide	0.1 mg

Reagent Storage:

- The reagent disc should be stored at $2\sim8$ °C.
- The expiry date of the reagent is printed on the outside of the sealed pouch of reagent disc.

Do not use if the reagent disc has expired.

4. Specimen Collection and Preparation

Specimen Collection:

- Specimens suitable for skyla Equine Panel include lithium heparinized whole blood, lithium heparinized plasma, serum and quality control materials. The sample requirement is 200 μL. (±10 μL tolerance are allowable)
- If applicable, local regulatory or standard operating procedures of your organization should be followed for the collection, preservation and handling of specimens.

Note: Do not use specimens containing other coagulants. That would cause an incorrect test results.

Specimen Preparation:

■ Before applying a sample to the reagent disc, gently rotate the sample tube up and down several times, to confirm the sample is homogeneous (evenly mixed). If the sample is whole blood, do not shake the sample container vigorously to avoid occurrence of hemolysis.

Note:

- 1. Perform testing within 10 minutes after applying the sample to the reagent disc.
- 2. The use of whole blood specimens with hematocrits (Hct) higher than 60% may affect the test results.

Note: For further information in specimen collection and preparation, please refer to "skyla Analyzer Operator's Manual"

5. Test Procedures

Material Preparation:

1 piece of the reagent disc of skyla Equine Panel

Required materials not included in the panel:

skyla Analyzer

Sample collection container

Micropipette / Tips

Test Conditions:

Test should be carried out in an environment with temperatures of 10°C~32°C. Each test will take about 15 minutes. During the test, chamber in the analyzer keeps the temperature at 37°C for stable assay.

Test Steps:

- 1. Open the aluminum pouch and remove the reagent disc.
- 2. Remove the diluent container sealing.
- 3. Using a micropipette to inject 200 μL of the sample into the reagent disc through the sample port.
- 4. Press the "start" button on the screen to initiate testing.
- 5. Place the reagent disc to the analyzer drawer, and press the "ok" button on the screen to analysis.

For details on the operating steps and instrument setting, please refer to "skyla Analyzer Operator's Manual".

Note:

- 1. To operate the reagent disc or instrument, please wear lab gloves and other protective gear to avoid contamination by specimen.
- 2. The used reagent disc and tips should be discarded as biomedical waste, and treat according to the local legal requirements.
- 3. Testing should be performed within 20 minutes after the pouch is opened.
- 4. Do not place the reagent disc at the environment more than 25°C and longer than 48 hours prior to use.
- 5. If the reagent disc or its package is damaged or is over the expiry date, do not use it.

6. Calibration

The barcode on every manufactured reagent disc contains all information required for calibration of the test items. The analyzer will automatically read the barcode information during testing.

7. Quality Control

■ Please refer to the instruction manual for the preparation and use of quality control materials. For discrepancy results, the confirmatory test was suggested to carry out with the automated laboratory analyzer, or to contact with our technical support.

- External quality control materials can be used for the accuracy monitor of skyla system. The recommended frequency of QC testing is as follows, otherwise please follow local legal requirements or the standard operating procedures of your organization
 - At least every 30 days.
 - Before a new batch of reagents is used for testing.
 - When the analyzer was moved or the operating environment significantly changed.

8. Reference interval

The table below shows the reference interval for each test item. It is recommended that every laboratory or test site should establish its own reference interval from its patient population.

7	Test Item	Referen	ce Interval	Reference (SI Ur	
	Canine	2.6 - 4.6	g/dL	26 - 46	g/L
ALB	Feline	2.5 - 4.6	g/dL	25 - 46	g/L
	Equine	2.1 - 4.3	g/dL	21 - 43	g/L
	Canine	0 - 212	U/L	0 - 212	U/L
ALP	Feline	0 - 111	U/L	0 - 111	U/L
	Equine	0 - 326	U/L	0 - 326	U/L
	Canine	0 - 50	U/L	0 - 50	U/L
AST	Feline	0 - 48	U/L	0 - 48	U/L
	Equine	92 - 610	U/L	92 - 610	U/L
	Canine	6.0 - 26.0	mg/dL	2.1 - 9.3	mmol urea/L
BUN	Feline	13.0 - 37.0	mg/dL	4.6 - 13.2	mmol urea/L
	Equine	10.0 - 30.0	mg/dL	3.6 - 10.7	mmol urea/L
	Canine	7.9 - 12.0	mg/dL	2.0 - 3.0	mmol/L
Ca	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
	Canine	0 - 200	U/L	0 - 200	U/L
CPK	Feline	0 - 314	U/L	0 - 314	U/L
	Equine	0 - 350	U/L	0 - 350	U/L
	Canine	0.4 - 1.6	mg/dL	35-141	μmol/L
CREA	Feline	0.7 - 2.0	mg/dL	62-177	μmol/L
	Equine	0.7 - 2.0	mg/dL	62-177	μmol/L
	Canine	<10	U/L	NA	U/L
GGT	Feline	<10	U/L	NA	U/L
	Equine	0-42	U/L	0-42	U/L
	Canine	60 - 110	mg/dL	3.3 - 6.1	mmol/L
GLU	Feline	53 - 150	mg/dL	2.9 - 8.3	mmol/L
	Equine	63 - 136	mg/dL	3.5 - 7.6	mmol/L
	Canine	3.5 - 5.8	mmol/L	3.5 - 5.8	mmol/L
K	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
	Canine	138 - 160	mmol/L	138 - 160	mmol/L
Na	Feline	142 - 164	mmol/L	142 - 164	mmol/L
	Equine	126 - 146	mmol/L	126 - 146	mmol/L

	Test Item	Refere	nce Interval	Reference (SI Ur	
	Canine	0.0 - 0.9	mg/dL	0.0 - 15.0	μmol/L
TBIL	Feline	0.0 - 0.9	mg/dL	0.0 - 15.0	μmol/L
	Equine	0.0 - 3.5	mg/dL	0.0 - 60.0	μmol/L
	Canine	5.2 - 8.2	g/dL	52 - 82	g/L
TP	Feline	5.7 - 8.9	g/dL	57 - 89	g/L
	Equine	5.6 - 7.9	g/dL	56 - 79	g/L
	Canine	12-27	mmol/L	12-27	mmol/L
tCO ₂	Feline	15 - 24	mmol/L	15 - 24	mmol/L
	Equine	20-33	mmol/L	20-33	mmol/L

9. Limitation

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%)

	Substar	nce concentration with int	erferences of less than 2	20%
Test Item	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%
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%
CPK	700 mg/dL	50.9 mg/dL	51.3 mg/dL	0.3 %
CREA	400mg/dL	36.7mg/dL	26.3 mg/dL	
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%
Na	600 mg/dL	40.2 mg/dL	39.8 mg/dL	0.2%
TBIL	600 mg/dL			0.1%
TP	300 mg/dL	62.5 mg/dL	57.5 mg/dL	0.2%
tCO ₂	530mg/dL	41.5 mg/dL	42.4mg/dL	0.16%

10. Performance Characteristics

Dynamic range:

The dynamic range for each test item showed as below.

Test Item	Dynamic Range		Dynamic Ran	Dynamic Range (SI Unit)	
ALB	1.0-6.0	g/dL	10-60	g/L	
ALP	41-2000	U/L	41-2000	U/L	_

AST	20-1000	U/L	20-1000	U/L
BUN	2.0-140	mg/dL	0.7-50.0	mmol urea/L
Ca	4-15	mg/dL	1.0-3.8	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
Na	110-175	mmol/L	110-175	mmol/L
TBIL	0.4-30.0	mg/dL	6.8-513.1	μmol/L
TP	1.5-10.0	g/dL	15-100	g/L
tCO_2	10 - 40	mmol/L	10 - 40	mmol/L

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.

Marke	r	\mathbb{R}^2	Slope	Intercept	Sample No.	Sample Range
	Canine	0.9848	0.9999	0.0000	38	2.7-5.9 g/dL
ALB	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
	Canine	0.9626	0.9999	-0.0059	32	53-1246 U/L
ALP	Feline	0.9581	0.9998	- 0.0010	32	24-263 U/L
	Equine	0.9519	0.9990	-0.0009	42	48-297 U/L
	Canine	0.9990	0.9968	0.7497	38	22-803 U/L
AST	Feline	0.9997	1.0033	-0.9437	38	22-891 U/L
	Equine	0.9990	0.9993	3.4058	16	188-1310 U/L
	Canine	0.9967	0.9843	0.6679	41	9.7-128.4 mg/dL
BUN	Feline	0.9923	1.0067	-0.7677	40	17.5-126.9 mg/dI
	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
	Canine	0.9960	0.9931	-0.0083	15	88-1027 U/L
CPK	Feline	0.9971	0.9990	-0.0025	12	121-1861 U/L
	Equine	0.9605	1.0126	-0.7476	20	86-237 U/L
	Canine	0.9968	1.0526	-0.0305	38	0.5-16.9 mg/dL
CREA	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/dI
	Canine	0.9992	1.0014	-0.5713	28	17-1861 U/L
GGT	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	1.0001	0.0089	43	78-558 mg/dL

Marke	r	\mathbb{R}^2	Slope	Intercept	Sample No.	Sample Range
	Feline	0.9957	0.9956	2.1761	44	93-549 mg/dL
	Equine	0.9959	1.1018	-2.8485	16	73-520 mg/dL
	Canine	0.9805	0.9728	0.1666	33	3.9-7.7 mmol/L
K	Feline	0.981	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
	Canine	0.9854	0.9969	0.7604	40	116-178 mmol/L
Na	Feline	0.9863	0.9887	1.5809	47	125-175 mmol/L
	Equine	0.9849	1.0181	2.6927	31	111-167 mmol/L
	Canine	0.9966	0.9866	0.2672	23	0.1-31.2 mg/dL
TBIL	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
	Canine	0.9603	0.9999	0.0000	38	5.2-9.5 g/dL
TP	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
	Canine	0.9846	0.9218	2.7611	18	19.2-41.8 mmol/L
tCO_2	Feline	0.9802	1.0766	-2.3002	17	13.1-36.7 mmol/L
	Equine	0.9814	1.0212	-1.2205	18	18.4-38.7 mmol/L

Symbol Index					
REF	Catalogue number	i	Consult instruction for use		
LOT	Batch code	\subseteq	Use by		
***	Manufacturer	Cf	CE mark		
1	Temperature limitation	<u> </u>	Caution		
(2)	Do not reuse	Σ	Sufficient for		

Supplier : SKYLA CORPORATION HSINCHU SCIENCE PARK BRANCH

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Issue Date: 2015/04/08 Revised Date: 2020/08/21 PN: 7B25000051HE