



## CK-NAC FS\*

### Order Information

Cat. No. 1 1601 99 11 921  
 Kit size  480 (4 x 120)

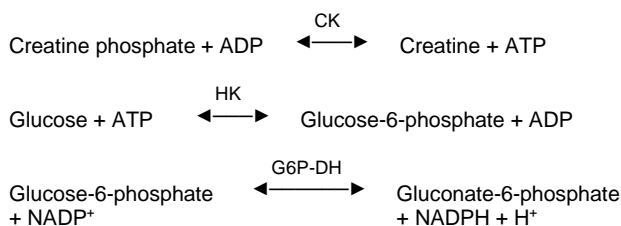
### Intended Use

Diagnostic reagent for quantitative in vitro determination of creatinkinase (CK) in serum or lithium heparin plasma on automated respons<sup>®</sup>910 VET.

For veterinary use only.

### Method

Optimized UV-test according to IFCC (International Federation of Clinical Chemistry and Laboratory Medicine) and DGKC (German Society of Clinical Chemistry).



### Reagents

#### Components and Concentrations

<b>R1:</b>	Imidazole	pH 6.0	60 mmol/L
	Glucose		27 mmol/L
	N-Acetylcysteine (NAC)		27 mmol/L
	Magnesium acetate		14 mmol/L
	EDTA-Na <sub>2</sub>		2 mmol/L
	NADP		2.7 mmol/L
	Hexokinase (HK)		≥ 5 kU/L
<b>R2:</b>	Imidazole	pH 9.0	160 mmol/L
	ADP		11 mmol/L
	AMP		28 mmol/L
	Diadenosine pentaphosphate		55 μmol/L
	Glucose-6-phosphate dehydrogenase (G6P-DH)		≥ 14 kU/L
	EDTA-Na <sub>2</sub>		2 mmol/L
	Creatine phosphate		160 mmol/L

### Storage and Stability

Reagents are stable up to the date of expiry indicated on the kit, if stored at 35.6 - 46.4°F and contamination is avoided. Protect from light.

### Warnings and Precautions

- ⚠ Reagent 1: Danger. H360D May damage the unborn child. P201 Obtain special instructions before use. P280 Wear protective gloves/protective clothing/eye protection. P308+P313 If exposed or concerned: Get medical advice/attention.
- ⚠ Reagent 2: Danger. H315 Causes skin irritation. H319 Causes serious eye irritation. H360D May damage the unborn child. P201 Obtain special instructions before use. P280 Wear protective gloves/ protective clothing/eye protection. P302+P352 If on skin: Wash with plenty of water/soap. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 If exposed or concerned: Get medical advice/attention.
- The reagents contain sodium azide (0.95 g/L) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.
- Reagent 1 contains biological material. Handle the product as potentially infectious according to universal precautions and good clinical laboratory practice.
- Reagent 2 contains animal and biological material. Handle the product as potentially infectious according to universal precautions and good clinical laboratory practice.

- In very rare cases, samples of animals with gammopathy might give falsified results.
- Please refer to the safety data sheets and take the necessary precautions for the use of laboratory reagents. For diagnostic purposes, the results should always be assessed with the animal's medical history, clinical examinations and other findings.
- For professional use only.

### Waste Management

Refer to local legal requirements.

### Reagent Preparation

The reagents are ready to use. The bottles are placed directly into the reagent rotor.

### Materials Required

General laboratory equipment

### Specimen

Serum or heparin plasma (Lithium)

Stability:

2 days at 39.2 – 46.4°F

Only freeze once. Discard contaminated specimens.

### Calibrators and Controls

DiaSys TruCal U is recommended for calibration. This method has been standardized against the original IFCC formulation. Use DiaSys TruLab N and P for internal quality control. Each laboratory should establish corrective action in case of deviations in control recovery.

	Cat. No.	Kit size
TruCal U	5 9100 99 11 063	20 x 3 mL
TruLab N	5 9000 99 11 062	20 x 5 mL
TruLab P	5 9050 99 11 062	20 x 5 mL

### Performance Characteristics

The performance characteristics were evaluated with human samples and might differ from results obtained with various animal specimen.

Measuring range up to 1100 U/L. In case of higher activity re-measure samples after manual dilution with NaCl solution (9 g/L) or use rerun function.	
Limit of detection**	3 U/L
Onboard stability	6 weeks
Calibration stability	3 weeks

Interfering substance	Interferences ≤ 10% up to	Analyte concentration [U/L]
<b>Ascorbic acid</b>	30 mg/dL	99.0
<b>Bilirubin (conjugated)</b>	60 mg/dL	92.0
	60 mg/dL	175
<b>Bilirubin (unconjugated)</b>	70 mg/dL	96.7
	70 mg/dL	307
<b>Hemoglobin</b>	100 mg/dL	143
	100 mg/dL	197
<b>Lipemia (triglycerides)</b>	1000 mg/dL	90.5
	2000 mg/dL	158

For further information on interfering substances refer to Young DS. Effects of Drugs on Clinical Laboratory Tests. 5th. ed. Volume 1 and 2. Washington, DC: The American Association for Clinical Chemistry Press, 2000.





\*\* according to CLSI document EP17-A, Vol. 24, No. 34

### Conversion Factor

CK [U/L] x 0.0167 = CK [μkat/L]




**Reference Range**

				
<b>DOG</b>	<b>CAT</b>	<b>HORSE</b>	<b>CATTLE</b>	<b>Unit</b>
<b>57 - 308</b>	<b>79 - 778</b>	<b>185 - 470</b>	<b>130 - 575</b>	<b>U/L</b>

Reference ranges have been validated by DiaSys USA according to National Reference Laboratory standards.

Each laboratory should check if the reference ranges are transferable to its own animal population and determine own reference ranges if necessary.

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\* Fluid Stable