

Diabetes | T-KB KITS



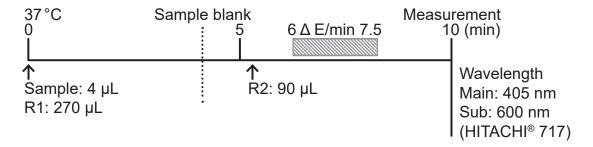
## **AUTOKIT TOTAL KETONE BODIES | Cyclic Enzymatic Method**

For the quantitative determination of Total Ketone Bodies in serum or plasma

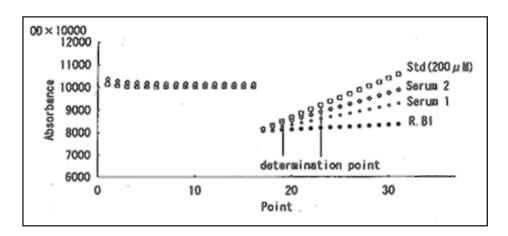
- Pediatric disorders of metabolism
- Monitoring of liver transplants
- Also used for veterinary purposes
- Enzymatic colorimetric test
- Applicable to clinical chemistry analyzers
- Principle

Acetoacetate (AcAc) and 3-Hydroxybutyrate (3-HB) in the sample are converted to 3-HB and AcAc, respectively, in the presence of 3-hydroxybutyrate dehydrogenase (3-HBDH), NADH and Thio-NAD. 3-HB and AcAc produced in the enzymatic reactions are converted to AcAc and 3-HB subsequently. During these cyclic reactions, NAD and Thio-NADH are produced. By measuring the rate of Thio-NADH production spectrophotometrically, T-KB in the sample is determined.

Procedure



Reaction

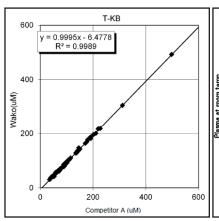


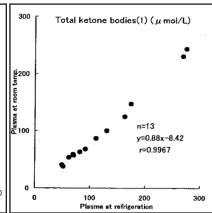


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## Correlation



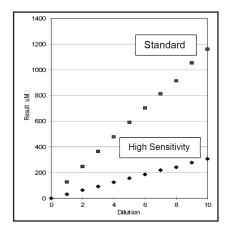


Range

Standard method: 3 – 1000 µmol/L

High sensitivity method: 0.2 – 200 µmol/L

Linearity



Interference

Ascorbic acid and bilirubin do not have a significant effect on the assay. Interfering substances heparin, citrate, oxalate, EDTA and sodium fluoride do not affect the measurements when they are used in their respective usual quantities.

**CE Applications** Hitachi 911

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Ordering

Code No.	Product	Content
415-73301	Autokit Total T-KB, R1 Set	R1a: 2 x 27 mL
		R1b: 2 x for 27 mL
413-73601	Autokit 3-HB R2 Set (3-HB and T-KB)	R2a: 2 x 9 mL
		R2b: 2 x for 9 mL
412-73791	Ketone Body Calibrator 300	CAL: 4 x 5 mL