

Ordering information

Referens	Cat. Nr	Kit size
Diasystem Vet Total Bile Acid Calibrator	1011	2 x 2mL

Intended Use

The Diasystem Vet Total Bile Acid Calibrator is intended to be used for calibration of Diasystem Vet Total Bile Acid Assay. The calibrator is used in the calculation of Total Bile Acid (TBA) concentrations in unknown serum and plasma samples.

For *in vitro* diagnostic use only.

Summary

The Diasystem Vet TBA Calibrator is one liquid stable calibrator pre-prepared in a buffer base. The CALIBRATOR is to be used for calibration of the Diasystem Vet TBA Assay (REF CDT-TBA, 1010). The TBA assay is based on the enzymatic cycling: In the presence of Thio-NAD, the enzyme 3- α -hydroxysteroid dehydrogenase (3- α -HSD) converts bile acids to 3-keto steroids and Thio-NADH. The reaction is reversible and 3- α -HSD can convert 3-keto steroids and Thio-NADH to bile acids and Thio-NAD. In the presence of excess NADH, the enzyme cycling occurs efficiently and the rate of formation of Thio-NADH is determined by measuring specific change of absorbance at 405 nm.

Summary

Reactive components

- Bile acid

Non-reactive components

- Buffers

Calibrator Values

The exact CALIBRATOR value is given on the available on the calibrator bottle.

Warnings and Precautions

1. For *in vitro* diagnostic use only.
2. Possible infectious agents in the materials have been inactivated. Because no method can offer complete assurance as to the absence of infectious agents, this material should be handled as though capable of transmitting infectious disease and disposed as biohazard waste or medical waste according to applicable local and national laws.
3. Additional safety information concerning storage and handling of this product is provided within the Material Safety Data Sheet for this product. To obtain an MSDS, please contact our customer service department at +46 36 58 59 000 or visit www.diasystemvet.se.

Handling

Bring one vial of the TBA CALIBRATOR to the room temperature. Mix contents with gentle swirling motion before dispensing.

Storage and Stability

Store at 2-8°C.

Stability

The Diasystem Vet total bile acid calibrator is stable until expiration date printed on label when stored properly at 2-8°C.

Materials Provided

The CALIBRATOR consists of two vials of liquid.

Materials required (but not provided)

- Diasystem Vet TBA Assay reagents (REF CDT-TBA, 1010)
- 0.9% saline solution
- General laboratory equipment

Assay

Use 0.9% saline solution as CALIBRATOR 0 and Diasystem Vet TBA Calibrator as CALIBRATOR 1 for the Diasystem Vet TBA Assay. Enter 0 $\mu\text{mol/L}$ for CALIBRATOR 0 and CALIBRATOR 1 lot specific value provided on the certificate of analysis sheet for CALIBRATOR 1 on analyzer to perform calibration.

Note: A saline solution is required to generate a 2-point calibration for some analyzers such as Hitachi. liquid.

References

1. LaRusso, N.F. et al., Dynamics of Enterohepatic Circulation of Bile Acids, *New Engl J M*, 291, 689-692, (1974).
2. Skrede S. et al: Bile acids measured in serum during fasting as a test for liver disease, *Clin Chem* 24: 1095-1099, 1978
3. Wu, Alan H. B. *Tietz Clinical Guide to Laboratory Tests*. 4th ed. St. Louis, MO: Saunders/Elsevier, 2006. 170-171.

Manufacturer

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Value sheet

	LOT	Exp date	Value	Unit
Calibrator	2002	2025-05-01	50.0	$\mu\text{mol/L}$