

# Sorbitol Dehydrogenase

FOR THE QUANTITATIVE MEASUREMENT OF SORBITOL DEHYDROGENASE

**METHOD: ENZYMATIC; KINETIC; VETERINARY USE ONLY**

SDH is a specific indicator of acute liver cell damage and liver disease in animals, parenchymal hepatic diseases.

The Sekisui method of SDH activity measurement is modeled on the oxidation-reduction reaction between sorbitol and fructose. It is intended for the quantitative measurement of sorbitol dehydrogenase activity in animal serum.

## Features:

- Applicable to multiple instrument platforms
- Two levels (low and high) of SDH control material available
- Wide linear range\*

## Benefits:

- Flexible testing, well suited for use with fully automated procedures
- Convenient
- Reduces the need for diluting and repeat testing

## Performance Characteristics

### Precision

- Within-Run:  $\leq 1.3\%$
- Total Precision:  $\leq 3.3\%$

### Accuracy<sup>(a)</sup>

- Slope: 1.23
- Intercept: -0.3 U/L
- Correlation Coefficient: 0.9993

### Linearity

- 1.0 - 50 U/L

### No Significant Interferences Up to Levels Indicated

- Unconjugated Bilirubin: 24 mg/dL (410  $\mu\text{mol/L}$ )
- Conjugated Bilirubin: 3 mg/dL (36  $\mu\text{mol/L}$ )
- Intralipid: 200 mg/dL (600 mg/dL (6.8 mmol/L) Simulated Triglycerides)

### Reference Range<sup>(1)</sup>

- 6.1 - 18 U/L (cow)
- 1.2 - 8.5 U/L (horse)
- 0.5 - 4.9 U/L (pig)
- 3.1 - 7.6 U/L (dog)
- 2.4 - 6.1 U/L (cat)
- 3.5 - 21 U/L (sheep)
- 9.3 - 21 U/L (goat)

(a) The performance of this method (y) was compared with the performance of another commercially available method (x) on a Roche/Hitachi® 717 automated analyzer.

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## Ordering information

	Configuration	Catalog Number
<b>Sorbitol Dehydrogenase</b>	R1 20 x 0.2mg R1A 1 x 50mL R2 1 x 10mL	740-25
<b>Sorbitol Dehydrogenase</b>	R1 10 x 1.18mg R1A 1 x 125mL R2 1 x 20mL	740-10
<b>SDH Level 1 (Low) Control</b>	6 x 2mL	SM-740
<b>SDH Level 2 (High) Control</b>	6 x 2mL	SM-741

(1) Merck Veterinary Manual, Serum Biochemical Reference Ranges, Merck & Co. Inc. (2008).

\* Compared to the reference range



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**THE AMERICAS**

Sekisui Diagnostics, LLC  
One Wall Street  
Burlington, MA 01803  
Phone: 800 332 1042  
Fax: 800 762 6311  
Email: [questions@sekisui-dx.com](mailto:questions@sekisui-dx.com)

**INTERNATIONAL**

Sekisui Diagnostics (UK) Limited  
Liphook Way, Allington  
Maidstone, Kent, ME16 0LQ, UK  
Phone: +44 1622 607800  
Fax: +44 1622 607801  
Email: [info@sekisui-dx.com](mailto:info@sekisui-dx.com)



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[www.sekisuidiagnostics.com](http://www.sekisuidiagnostics.com)