



CATACHEM

# SDH REAGENTS

## PRODUCT / SERVICE INFORMATION

### Catachem, Inc. Introduces the Sorbitol Dehydrogenase (SDH) In-Vitro Diagnostic (IVD) Chemistry Reagent Kit.

Catachem is pleased to announce the introduction of our new stable liquid reagent system with calibrator and controls.

Measurement of SDH activity is of considerable clinical value as an effective indicator of acute hepatic anoxia. Studies by Gertch and others have supported this premise by reporting sharp increases in serum SDH activity in cases of extensive liver damage, such as in acute hepatitis. Several procedures have been reported in the literature for measuring the enzyme, L-Iditol Dehydrogenase or Sorbitol Dehydrogenase (SDH, EC 1.1.1.14) in serum. Catachem's procedure is based on the enzymatic procedure described by Clive I. Rose and Arthur R. Henderson. In this procedure SDH catalyzes the reversible oxidation-reduction reaction between Sorbitol and Fructose with concomitant oxidation of NADH to NAD<sup>+</sup>. The decrease in absorbance is monitored at 340nm. The delta absorbance produced is directly proportional to the concentration of SDH activity in the serum sample.

To improve working stability and preparation of working reagents, Catachem now packages both SDH reagents as ready to use liquid reagents. These new reagents have shelf stability to expiration date of the specific lot number and a working stability of minimum 60 days upon opening of the SDH Sample Diluent (R1) and Activator Reagent (R2) containers. To standardize results based on calibration rather than a theoretical K-Factor, Catachem also offers an SDH Calibrator along with SDH Controls Level I and Level II. Catachem recommends the use of our SDH Calibrator on a daily basis to maintain accuracy and precision of results. Catachem SDH Calibrator and Controls Level I and Level II now have a minimum of 30 days working stability.

#### **Stability Of New Reagents, Calibrator and Controls:**

**Shelf Stability:** To expiration when stored at 2-8°C.

**Working Stability:** Minimum 60 days upon opening of reagent containers and minimum 30 days upon opening of calibrator and controls containers and both sets stored at 2-8°C.

**Sensitivity:** Using a pathlength of 1 cm, a D-absorbance of 0.0016-0.0024 per mg/ml should be obtained.

**Linearity:** In this procedure there is not significant nonlinearity over the range of 0-100 U/L.