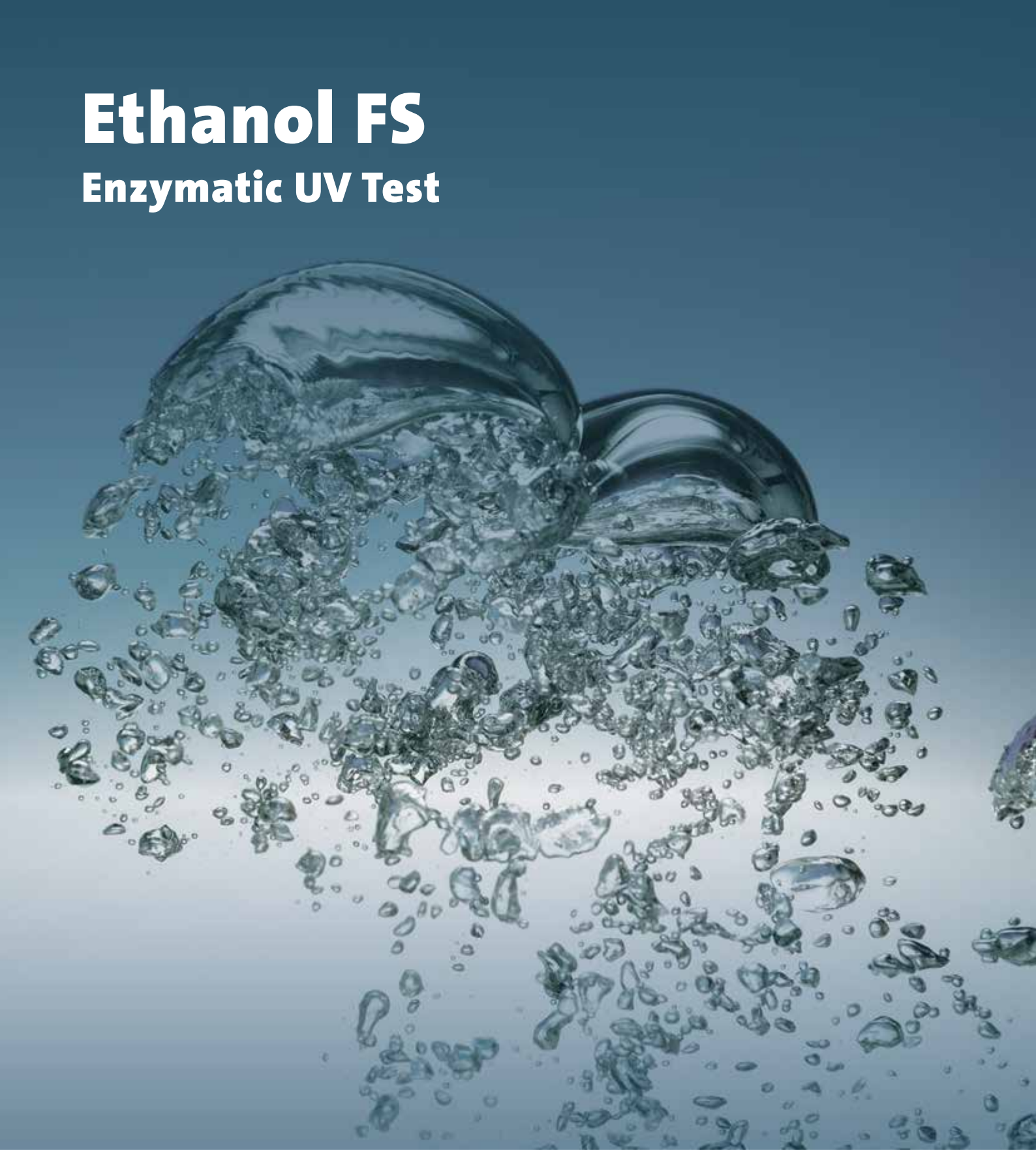
Ethanol FS

Enzymatic UV Test



Simple. Fast. Accurate.

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Clinical Relevance

Alcohol-attributable injuries and violence are of growing concern. Alcohol-related injuries from road accidents, poisoning, falls, drowning and burns are particularly evident in emergency departments and trauma-centers. Ethanol analysis is often requested in life-threatening settings but is also requested for forensic purposes. The concentration of ethanol in blood is a significant factor in understanding the extent of intoxication. Ethanol passes from the stomach into the small intestine, where it is rapidly absorbed into the blood and distributed throughout the body.

Ethanol acts on cerebral functions as a tranquilizer. Similar to general anesthetics ethanol causes typical symptoms such as impaired thoughts, clouded judgement, and changed behavior. With a rising alcohol level, the degree of impairment increases progressively. Beside gas-chromatography (GC), enzymatic determination of ethanol in biological samples is a common test in clinical toxicology and forensic laboratories. The combined use of GC and enzymatic method is recommended and meets all medico-legal requirements.

Ethanol FS

Ethanol FS is a simple, fast, and sensitive enzymatic UV test with alcohol dehydrogenase (ADH) which enables the determination of ethanol in serum and plasma. The accurate measurement meets all medico-legal requirements. In the presence of NAD, ethanol is converted by alcohol dehydrogenase. The absorbance of the produced NADH, measured at 376 nm is proportional to the ethanol concentration in the sample. Results displayed in mg/dL may be easily converted to BAC (Blood Alcohol Content).

Features and Benefits

- Liquid-stable, ready to use reagent
- Enzymatic UV test with alcohol dehydrogenase
- Linearity up to 3.5 g/L
- Excellent precision (intra-assay < 2%, inter-assay < 3.5%)
- No interferences by lipemic samples
- Traceable to NIST SRM 2893
- Control and reference standards with defined concentrations available
- Easily adaptable on any clinical chemistry analyzer

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