

Acetoacetic Acid, Lithium Salt

Catalog No. CSI20345A Quantity: 5 g

CSI20345B 10 g

Alternate Names: Lithium acetoacetate, ketone indicator

Description: Urine Ketone: acetoacidic acid is used for Ketone sensitivity in Urine Test strips.

Ketone Chemical Principle: Legal's test-nitroprusside reaction. Use Acetoacetic acid in an alkaline medium that reacts with nitroferricanide to produce a color change from beige

to purple on the urine strip.

Urine Ketone(s) such as(beta-hydroxybutyric acid, acetoacetic acid, and acetone) are the end- product of rapid or excessive fatty acid breakdown. Its important to note that only acetoacetic acid reacts with sodium nitroprusside reagent. As with glucose, ketone(s) are present in the urine when the blood levels surpass a certain threshold. Fatty acid release from adipose tissue is stimulated by a number of hormones including glucagon, epinephrine, and growth hormone. The levels of these hormones are increased in starvation, uncontrolled diabetes mellitus, and a number of other conditions.

A positive test for urine ketone(s) may indicate: Metabolic abnormalities, including uncontrolled diabetes or glycogen storage disease, Abnormal nutritional conditions, including starvation, fasting, anorexia, high protein or low carbohydrate diets, Protracted vomiting, including hyperemesis gravidarum, Ketone testing also indicate Disorders of increased metabolism, including hyperthyroidism, fever, acute or severe illness, burns,

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pregnancy, lactation or post-surgical condition

Solubility: (5% in water), clear, colorless

Purity: Typically >95% Pure

Appearance: White powder

Molecular Weight: 108.00

Formulation: Crystalline

Formula: C4H5LiO3

Storage & Stability: < -20° C. Expiration 5 years after manufactured date.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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