Technical Bulletin

Albumin Quick Test Strips

Catalog Number MAS009

Product Description

Albumin is the most abundant plasma protein in humans. Albumin plays many important physiological roles, including maintenance of colloid osmotic pressure and binding of key substances such as long-chain fatty acids, bile acids, bilirubin, hematin, calcium, and magnesium. Serum albumin is a reliable prognostic indicator for liver disease, nephritic syndrome, malnutrition, protein-losing enteropathies, as well as morbidity and mortality. In addition, elevated levels of serum albumin are associated with dehydration.

The Albumin Quick Test Strips are based on the immobilization of an albumin sensitive chromogen onto a pad. Albumin will react with the chromogen and produce a colored product. The intensity of the product color is directly proportional to the albumin concentration in the sample. The semi-quantitative detection range of the kit is 0-0.4 g/dL or 0-60 µM (undiluted) albumin.

This kit is suitable for the detection of albumin in serum, plasma, urine, etc.

Components

The kit is sufficient for 10 tests

- Albumin Test Strips (10 strips) Catalog Number MAS009A — 1 Each
- Dilution Tubes Catalog Number MAS009B — 10 Each

Equipment Required but Not Provided

- Pipetting devices and accessories

Precautions and Disclaimer

For Research Use Only. Not for use in diagnostic procedures. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The kit is shipped at room temperature. Store components at 2-8 °C. Keep strips dry and out of direct sunlight.

Preparation Instructions

Sample Preparation

Most urine samples can be tested undiluted.

For most serum or plasma samples, it is recommended to dilute samples 100-fold.

For samples requiring dilution, dilute samples into Dilution Tubes according to Table 1. Mix thoroughly.

Table 1.
Sample Dilutions

Dilution	Purified Water	Sample
100-Fold	495 µL	5 µL

Procedure

1. Transfer 20 µL of diluted or undiluted Sample directly onto the reaction pad of an Albumin Test Strip.
2. Allow color to develop on strip for 30 seconds.
3. Compare the color of the reaction pad of the strip with the provided Albumin Chart. Multiply the concentration in the chart by the Sample dilution factor used (i.e. 100) to determine the Albumin concentration in the original Sample.

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