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Product Technical Fact Sheet

Product Code: PRO

Product Description: Protein Test Strips

Application:

The protein test strip measure protein levels in water-based samples. They are not intended to be used in other matrixes (such as urine). They are for educational uses only. They are not approved for use as a medical device.

Test Range: Neg to 10+ g/L (or 0-10,000 ppm)

Test Increments: Color chart calibrated at 0 (Neg/Blank), 0.3, 1.0, 3.0, and 10 g/L

Calibration: Color chart determined using BSA (Bovine Serum Albumin) in water standards

Accuracy: +/- ½ color chart unit

Detection Limit: 0.15 g/L (or 150 ppm)

Storage Recommendations:

Store in original packaging in a cool (20-30C), dry, place out of direct sunlight.

Shelf-Life: Two years from date of manufacture when stored properly in original packaging.

Interferences: Matrixes other than water can affect color development. Strong acids or bases may affect the ability of the test pad to properly react to protein levels.

Instructions for Use:

1. Remove one test strip from the vial, being careful not to touch the test pad with your fingers.
2. Dip the test strip into the solution to be tested for 1 second. Remove strip, do not shake off any excess liquid.
3. Compare the test pad to the color chart after 60 seconds.

Chemistry Behind the Test:

The test strips employ what is called the “protein-error of indicators” effect, where the indicator reacts (changes color) in proportion to the amount of protein present. Normally the indicator is used to determine the pH of the sample. With these strips the test pad is treated with high levels of buffer salts. These buffer salts help maintain the pH of the microenvironment on the test pad after the sample is introduced. The indicator then reacts due to the level of protein content, not the pH of the sample.

Disclaimer:

The Protein test strips are not intended for use to diagnose, treat, or monitor any medical condition.