



Product: A test kit for detecting ketone bodies in cow milk.

A. Kit & Storage Specifications

Test Strip	<ul style="list-style-type: none">• 0.48 cm x 7.62 cm: 0.19 in x 3.00 in — consisting of plastic support material, adhesive, and membrane with dried reagents.• Contains no biological materials.
Test Principle	<ul style="list-style-type: none">• The reagent pad on the test strip contains an enzyme that converts BHB (beta-hydroxybutyrate) to acetoacetate. This reaction generates hydrogen ions that reduce nitrotetrazolium blue to formazan, which is purple in color.• The darker the purple color, the higher the concentration of BHB.
Color Chart	<ul style="list-style-type: none">• Printed on label for estimating results using color comparison.
Package Insert	<ul style="list-style-type: none">• List of kit contents, and instructions.
Storage	<ul style="list-style-type: none">• Store at 2° – 25° Celsius (36° – 77° Fahrenheit).• Store refrigerated whenever possible.• Product is supplied in black desiccated vials.• Keep vials tightly closed. Product is sensitive to light and humidity.
Shelf Life	<ul style="list-style-type: none">• 2 years from the date of manufacture if stored at room temperature (unopened product).

B. Test Specifications

Assay Temperature	<ul style="list-style-type: none">• 7° – 35° Celsius (45° – 95° Fahrenheit)
Reaction Time	<ul style="list-style-type: none">• 1 (one) minute

C. Performance Specifications

Analytical Ranges:	<ul style="list-style-type: none">• 0 50 100 200 500 $\mu\text{mol/L}$ BHB
Sensitivity	Initial studies show: <ul style="list-style-type: none">• 89% at 100 $\mu\text{mol/L}$ BHB in milk — compared to a concentration of 1.4 mg/dL BHB in blood.
Specificity	<ul style="list-style-type: none">• 80% at 100 $\mu\text{mol/L}$ BHB in milk — compared to a concentration of 1.4 mg/dL BHB in blood.