exotech®

MILK ADULTERATION TEST KIT

Milk is a nutrient-rich beverage that is packed with important vitamins and minerals, including calcium, phosphorus, B vitamins, potassium, and vitamin D. It is also an excellent source of protein. Overall, milk is a healthy beverage that can provide a number of health benefits. If you are able to tolerate milk, it is a good choice to include in your diet.

HUMAN HEALTH

Milk adulteration is the practice of adding harmful or substandard substances to milk in order to increase its volume or improve its appearance. The health effects of consuming adulterated milk can vary depending on the type of adulterant that is used.

EXOTECH MILK ADULTERATION TEST KIT

Exotech is a revolutionary solution to combat milk adulteration, providing a practical and effective means to ensure the purity and quality of milk. By empowering individuals with the ability to detect adulteration, Exotech aims to restore trust in the dairy industry and protect the health of consumers. With its user-friendly design, accurate results, and affordability, Exotech is set to revolutionize the way milk is tested and consumed, creating a safer and more transparent dairy market.

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STARCH DETECTION TEST

Procedure	Add 2-3 drops of reagent in 3 ml milk hot milk
Detection Limit	500 ppm (0.05 %)
Control	Creamy/ Light Yellow
Positive	Light Blue with Black Particles

HYDROGEN PEROXIDE DETECTION TEST

Procedure	Add 0.3 ml of reagent in 2 ml milk
Detection Limit	750 ppm (0.075 %)
Control	Light Grey
Positive	Light Blue to Greyish Blue

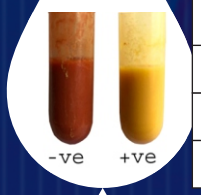
NEUTRALIZERS DETECTION TEST

Procedure	Add 1 ml of reagent in 1 ml milk
Detection Limit	150 ppm (0.015 %)
Control	Light Orange
Positive	Light Pink to Dark Pink

BORIC ACID DETECTION TEST

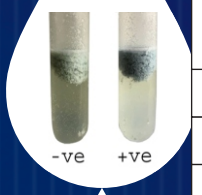
Procedure	Add 1 ml R1 and 1 ml R2 reagents in 1 ml milk
Detection Limit	1000 ppm (0.15 %)
Control	Dark Pink Color
Positive	Appearance of White

COMMON SALT DETECTION TEST



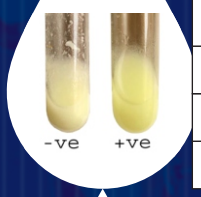
Procedure	Add 1 ml R1 and 0.25 ml R2 reagents in 2.5 ml milk
Detection Limit	750 ppm (0.075 %)
Control	Dark Brown
Positive	Distinct Yellow

SMP /WHEY POWDER TEST



Procedure	Add 0.25 ml R1, 1 ml R2, 1.5 ml milk and put in boiling water bath for 5 min
Detection Limit	30,000 ppm (3.0 %)
Control	Light Green
Positive	Greyish to Bluish Grey

MILK UREA DETECTION TEST

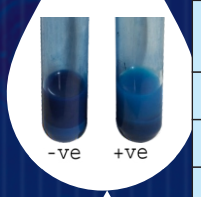


Procedure	Add 1 ml of reagent in 1 ml milk
Detection Limit	750 ppm (0.075 %)
Control	Light Yellow
Positive	Distinct Yellow

FORMALIN DETECTION TEST *

Procedure	Add 1 ml of reagent in 1 ml milk
Detection Limit	25 ppm (0.0025 %)
Control	Light Brown
Positive	Purple Ring

DETERGENT DETECTION TEST



Procedure	Add 500µl R1 and 1ml R2 in 500µl milk and centrifuge for 3min at 3000 RPM
Detection Limit	750 ppm (0.075 %)
Control	More Intense Blue Color in Upper Layer
Positive	More Intense Blue Color in Lower Layer

HYPOCHLORITE DETECTION TEST **

Procedure	Add 1 ml of reagent in 3 ml milk
Detection Limit	1000 ppm (0.1 %)
Control	Creamy White
Positive	Light Yellow to Yellow

CANE SUGAR DETECTION TEST

Procedure	Add 1 ml of reagent in 1 ml milk and put in boiling water bath for 5 minutes
Detection Limit	750 ppm (0.075 %)
Control	Light Brown
Positive	Red to Light Brick Red

EXON SCIENTIFIC
A Place of Innovations

Storage Conditions: Store at room temperature and avoid exposure of direct sunlight.

Close lid of bottle tightly after usage to prevent spillage and reagent evaporation.

*** Don't shake tubes after addition of reagents.**

**** Read result within 5 seconds of reagent addition.**

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