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Draminski MD4Q

Draminski MD4Q Mastitis Detector User Manual

Model: MD4Q

INTRODUCTION

Product Overview

The Draminski MD4Q Mastitis Detector is a portable and user-friendly device designed to assist in the early detection of sub-clinical mastitis in cows. This innovative device features a 4-cup design with a dedicated display for each quarter, enabling precise monitoring of udder health. Early detection of mastitis, even without visible symptoms, facilitates timely intervention, which can reduce treatment costs and minimize financial losses associated with milk production.

Principle of Operation

The detector operates by measuring changes in the electrical resistance of milk. As sub-clinical mastitis develops, there is an increase in salt levels within the milk, which directly correlates with a change in its electrical resistance. This method is recognized as a reliable indirect test for diagnosing sub-clinical mastitis. The device measures the condition separately for each quarter, displaying the differences and highlighting the quarter with the highest risk of mastitis.

PACKAGE CONTENTS

Upon unpacking, please verify that all components are present:

- Draminski MD4Q Mastitis Detector
- 1 x 9V 6F-22 type battery
- Reusable transport packaging
- User manual (this document)



Image: The Draminski MD4Q Mastitis Detector, showing its four collection cups and digital display. The device is black with a yellow label on the display unit.

SETUP

Battery Installation

1. Locate the battery compartment on the device.
2. Open the compartment cover.
3. Insert one 9V 6F-22 type battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

The device requires one 9V battery for operation.

OPERATING INSTRUCTIONS

Performing a Test

Follow these steps to perform a mastitis test:

1. Ensure the device is clean and dry before use.
2. Milk the first portion of milk directly from each teat into its corresponding measuring cup on the device. Fill each cup adequately.
3. Press the designated button on the device to initiate the measurement.
4. Read the results displayed on the screen. The device will show readings for each of the four quarters.

Interpreting Results

The device displays numerical values representing the electrical resistance of the milk from each quarter. Higher values or significant differences between quarters may indicate an increased risk of sub-clinical mastitis. The device is designed to highlight the quarter with the greatest risk, allowing for targeted monitoring and intervention.



Image: A hand holding the Draminski MD4Q Mastitis Detector, with milk visible in the four collection cups and numerical readings displayed on the screen.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Draminski MD4Q Mastitis Detector:

- **Cleaning:** After each use, thoroughly clean the measuring cups and the exterior of the device with a mild detergent and water. Rinse thoroughly and dry completely before storage.
- **Storage:** Store the device in its reusable transport packaging in a clean, dry place, away from extreme temperatures and direct sunlight.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display or if the device fails to power on.

TROUBLESHOOTING

If you encounter issues with your device, consider the following common solutions:

- **Device does not power on:**
 - Ensure the 9V battery is correctly installed with proper polarity.
 - Replace the battery with a new one.
- **Inaccurate or inconsistent readings:**
 - Verify that the measuring cups are clean and free from residue.
 - Ensure sufficient milk volume is collected in each cup for an accurate reading.
 - Confirm the milk sample is fresh and representative of the first portion.
- **Display issues:**
 - Check battery level and replace if necessary.

- Ensure the display area is clean and free from obstructions.

If problems persist, please contact Draminski customer support for further assistance.

SPECIFICATIONS

Model Number	MD4Q
Manufacturer	Draminski
Power Source	1 x 9V 6F-22 type battery
Item Weight	3.23 pounds (approximately 1.46 kg)
Package Dimensions	14.48 x 12.05 x 4.76 inches (approximately 36.78 x 30.61 x 12.09 cm)

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Draminski directly. Refer to the contact information provided with your purchase or visit the official Draminski website.