



# AgraStrip® FeedChek™ for Detection of Meat and Bone Meal (MBM) – Package Insert



**Part #: 7000201**

## **Product Description**

The AgraStrip®FeedChek™ Kit for Detection of Meat and Bone Meal (MBM) is designed to detect the presence of MBM in animal feedstuffs (e.g., raw materials, finished feeds). Currently, the use of mammalian MBM in cattle feed is prohibited or highly regulated in most countries due to its potential to spread Bovine Spongiform Encephalopathy (BSE) also known as “Mad Cow Disease”. As a precautionary measure, some regions (e.g. Europe) have restricted the use of MBM from any animal species in ruminant feeds. In order to accommodate user-specific requirements, the AgraStrip®FeedChek™ MBM kit incorporates 2 tests into one test strip. One test indicates the presence of mammalian and/or avian MBM in the sample and the second test indicates the presence of mammalian MBM in the sample.

## **Principle of the Test**

The assay uses a double antibody sandwich format. Antibodies specific to mammalian and avian MBM or solely mammalian MBM are coupled to a color reagent and incorporated into the lateral flow test strip. When the test strip is placed in a feed extract containing mammalian and/or avian MBM, the antibody-color reagent will bind to the MBM component. This complex then flows through the porous membrane. The membrane contains a control line and two test lines.

One test line contains antibodies specific for mammalian MBM and the other, antibodies specific for mammalian and avian MBM. The presence of one colored line (the

control line) indicates the sample is negative for mammalian and avian MBM (i.e., less than 0.1% (w/w)). The presence of 2 colored lines indicates that the sample is positive for mammalian and/or avian MBM at or above 0.1% (w/w). The presence of 3 colored lines indicates that the sample is positive for mammalian and/or avian MBM at or above 0.1% (w/w) *and* mammalian MBM is at or above 1% (w/w).

## **Contents of Kit**

<u>Description</u>	<u>Quantity</u>
AgraStrip®FeedChek™ MBM Test Strips	20
AgraStrip®FeedChek™ Extraction Buffer (500 ml)	1
Extraction Cups	20
Sample Scoop (1 Tsp)	1
Tongue depressors	20
Package Insert	1

## **Storage and Preparation of Reagents**

The FeedChek MBM kit should be stored at room temperature. The test strips must be kept in the desiccant canister.

Storage conditions higher than room temperature may adversely affect performance.

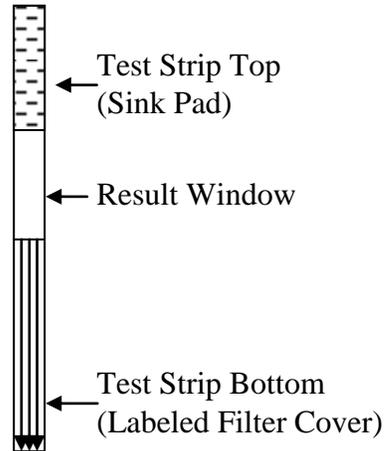
**Sampling**

The samples used for the FeedChek MBM kit can be sub-samples from “representative samples” collected from bulk feed, trucks, railcars, barges, etc. for other tests. **Note: It is assumed that the samples collected are representative of the contents of the container and are sufficiently mixed to contain a random distribution of the sample contents.**

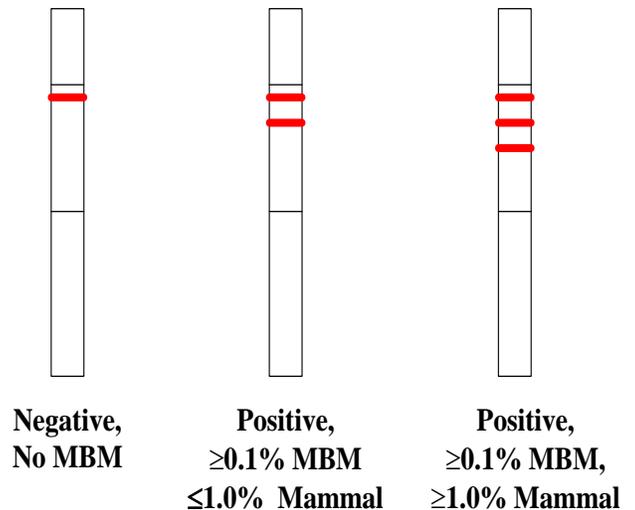
**General Test Procedure**

1. Add extraction buffer to the 1 oz. line on the extraction cup.
2. Using the sample scoop provided, scoop out one (1) level feed sample and put into an extraction cup. Using a tongue depressor (1 per sample), break up any pelleted feed components in the sample. Discard depressor.
3. Secure lid onto the cup and shake for 15 seconds.
4. Place one FeedChek MBM test strip into the cup with the arrows pointing down into the extraction cup. Wait 10 minutes.
5. At 10 minutes, remove the strip from the cup and interpret the results within 5 minutes.
6. The presence of one line (control line) on the membrane indicates a negative sample.
7. The presence of 2 lines indicates that the sample is positive for MBM ( $\geq 0.1\%$ ).
8. The presence of 3 lines indicates that the sample is positive for mammalian-derived MBM ( $\geq 1.0\%$ ).

**Illustration of Test Strip**



**Illustration of Negative and Positive Results**



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