



User manual

AVM® veg Powder Aseptic Validation Medium – AVM® Powder (Art.No. 2.04704.872) page 1/2

1. Information

Vegetable-based powder for producing a liquid medium for the trace detection of *beverage-spoiling microorganisms e.g. yeasts, bacteria and moulds* in the validation process of aseptic filling facilities.

The Aseptic Validation Medium (AVM®) veg Powder is a ready-to-use powder containing vegetable peptone for the production of AVM® veg Broth (liquid, vegetable-based Linden Grain medium). The medium is used for qualitative detection of beverage spoiling microorganisms as part of validation of aseptic filling facilities under standardized production conditions for slightly sour beverages. Using purely vegetable-based raw materials prevents animal-based ingredients from being introduced into the filling facility.

AVM® veg Powder has an optimised nutrient composition and contains buffering substances for the rapid and targeted detection of beverage-spoiling microorganisms in the entire filling line.

AVM® is an important tool for certification complying with the new ISO 22000 safety management standards, the preventative risk management (HACCP system) and accredited standards such as IFS and BRC.

2. Handling

Application

Dilute 29,6 kg of AVM®-Powder to a total sum of 1000 L with sterile water and adjust pH value by adding either

- 1M HCl or citric acid for pH<4.4, or while stirring the mixture.

The pH value can be individually set depending on the desired selectivity and the sensitivity of the products to be filled. Experience has shown that the ideal pH value is 4.3 ± 0.2 .

It is recommended to autoclave the dilution for 15 min. at 121°C/250°F after adjustment of the pH. If not possible please treat the dilution according to the technical periphery conditions e.g. by flash pasteurizer at the maximum level.

To specially facilitate the growth of aerobic microorganisms it is recommended to fill the bottles or cartons to only approx. 80-90%.

Incubation

Incubate all bottles and cartons at a temperature between 26-30°C/78-86°F for 5 to 7 days.

Evaluation

A re-contamination by beverage spoiling microorganisms such as yeast, moulds, lactic and acetic acid bacteria during the aseptic filling process can be detected rapidly and reliably through a clear cloudiness of the broth in the bottle.

The number of units in a filling batch that may be contaminated depends on the specification of the manufacturer of the filling machinery and the type of the beverage to be filled. As a practical recommendation and guideline 1 spoiled unit of 10.000 is allowed.



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3. Storage and Packaging Information

Packaging and Content

unit 20 kg bucket

Storage

Store at 4-8°C/40-46°F according to product specification.
 Store under dry and dark conditions. Do not freeze product.

Waste Disposal

No dangerous good.
 No hazardous material.
 Please consider your local waste regulations.
 Product can be disposed of with normal laboratory waste.
 Product can be disposed of down the drain.
 The COD value is 26.988 mg/L.

Warnings

Please do not freeze product. We recommend further processing of the product within 8 h.
 Maximum durability at 4-8°C/40-46°F for 3 days.

4. Related Products

Investigation material	Relevant target microorganisms	Product	Format	Description	Packaging	pH	Incubation T[°C]	Item no.
Productions and filling facilities Validation of aseptic filling facilities	Beverage-specific microorganisms Yeasts Bacteria Moulds	AVM®	Broth	Liquid Linden Grain medium for qualitative detection as part of validation of aseptic filling facilities	min. 3 to (tank)	4.0 – 4.4	25-30	2.04705.050
		AVM®	Powder	Powder for production of AVM®-broth – liquid Linden Grain medium	20 kg (bucket)	4.0 – 6.5		2.04704.872
		AVM®	Concentrated Broth	Concentrated liquid Linden Grain medium for production of AVM®-broth	min. 3 to (container)	max. 5.0		2.04755.521
Weak point analysis and analysis of weak spots	Biofilm-specific indicator microorganisms	NBB®-B-AM	Broth	Culture medium for qualitative detection of indicator microorganisms using swab sampling with sterile swabs as part of microbiological facility monitoring	9 x 250 mL (glass bottle)	5.6-5.9	25-29	2.04706.782