

## Technical Data Sheet

### ReadyPlate™55 KIT m-Green Agar

Ordering number: 1.46770.0150

For the enumeration of Yeasts and Moulds in water and other filterable liquids by the membrane filtration technique.

#### General

The m-Green Agar is recommended for the detection of yeast, mould and aciduric bacteria by membrane filter technique.

This Kit contains m-Green Agar and EZ Pak Membrane Filter that complies according to ISO 7704. It is released through an ISO 17025 accredited lab in compliance of the specifications stated in ISO 11133.

The KIT consist of 150pcs **ReadyPlate™55** m-Green Agar (146769) and 150 pieces of **EZ PAK®** white gridded cellulose esters membrane filters, 0.45µm pore size.



#### Typical Composition

ReadyPlate™55 m-Green Agar	
Yeast extract	9
Dextrose	50
Peptone	10
Magnesium sulfate	2.1
Diastase	0.05
Thiamine Hydrochloride	0.05
Bromocresol green	0.026
Agar	15
pH at 25 °C	4.6 ± 0.2

Media appearance is clear and green in color

## Application and Interpretation

Depend on the purpose for which the medium is used.

Each plate is provided with a label including a data matrix code for paperless plate identification. The code consists of a two-dimensional 20-digit serial number, which harbors the following information:

digits 1-3: here code 228 (corresponds to article 146770); digits 4-9: lot number; digits 10-14: batch specific individual number; digits 15-20: expiration date (YY/MM/DD).

Please check each agar plate before using it on sterility and pay attention to aseptic handling in order to avoid false positive results.

**Membrane filtration of samples:** Place the inoculated membrane filters on the surface of the plates. Incubate under aerobic conditions at 25 °C for 3-5 days.

Typical colonies will light green to dark green color. While, *Aspergillus brasiliensis* will exhibit black spot in the middle.

## Storage and Shelf Life

The product can be used for sampling until the expiry date if stored upright, protected from light and properly sealed at +15 °C to +25 °C.

Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.

The testing procedures as described on the CoA can be started up to the expiry date printed on the label.

## Disposal

Please mind the respective regulations for the disposal of used culture medium (e.g. autoclave for 20 min at 121 °C, disinfect, incinerate etc.).

## Quality Control

Function	Control strains	Incubation	Reference medium	Method of control	Expected results
Productivity	<i>Saccharomyces cerevisiae</i> ATCC 9763 WDCM 00058	3 – 5 days at 25 ± 2°C	Sabouraud Dextrose Agar (SDA)	Quantitative with membrane filtration	≥ 50 %, Light green to green colonies
	<i>Candida parapsilosis</i> DSM 5784				≥ 50 %, White mycelium with blackening
	<i>Aspergillus brasiliensis</i> ATCC 16404 WDCM 00053				≥ 50 %, Green to dark green colonies
	<i>Acetobacter pasteurianus</i> ATCC 19146				
Selectivity	<i>Bacillus licheniformis</i> ATCC 14580 WDCM 00068	5 days at 25 ± 2°C	Tryptic Soy Agar (TSA)	Qualitative with membrane filtration	Total Inhibition

Please refer to the actual batch related Certificate of Analysis.

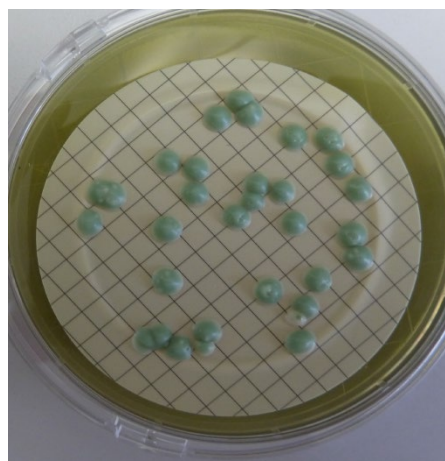
A recovery rate of 50 % is equivalent to a productivity value of 0.5.





*Aspergillus brasiliensis*

ATCC 16404



*Saccharomyces cerevisiae* ATCC 9763

## Literature

ISO International Standardisation Organisation. Cork stopper –Enumeration of colony-forming units of yeast, moulds and bacteria capable of growth in an alcoholic medium. ISO 10718

ISO International Standardisation Organisation. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media. EN ISO 11133:2014.

Sperber, W.H. and Doyle M.P. (2009): Food microbiology and food safety, Compendium of the Microbial Spoilage of Foods and Beverage. 258

## Ordering Information

Product	Cat. No.	Pack size
<b>ReadyPlate™ 55 KIT</b> m-Green Agar	1.46770.0150	Kit*
<b>ReadyPlate™ 55</b> m-Green Agar	1.46769.0020	20 x 55mm
<b>EZ-Pak®</b> Membrane Dispenser Curve	EZCURVE01	1 unit
<b>EZ-Pak®</b> cellulose mixed ester filter (gridded, 0,45 µm pore size)	EZHAWG474	4 x 150 pcs
<b>S-Pak®</b> cellulose mixed ester filter (gridded, 0,45 µm pore size)	HAWG047S6	4 x 150 pcs

\* The KIT Contains 150 x 55mm Media and 1 box x150 membrane Filters.

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