

Technical Data Sheet

ReadyPlate™55 Tryptone Glucose Extract (TGE) Agar

Ordering number: 1.46761.0020

For the cultivation and enumeration of microorganisms in water and other filterable liquids by the membrane filtration technique.

General

The medium is non-selective and allows growth of various microorganism.

Typical Composition

ReadyPlate™55 TGE Agar	
Peptone from Casein	5 g/l
Meat Extract	3 g/l
D(+)-Glucose	1 g/l
Agar-agar	12 g/l
Water	n/a
pH at 25 °C	7.0 ± 0.2

Media appearance: Plates are clear and yellowish-brown.

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 146761); 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 water samples: Place the inoculated membrane filters on the surface of the plates. Incubate the inoculated plates under aerobic conditions at 35 ± 2 °C for 48 ± 4 .

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	E.coli ATCC 8739 WDCM 0012	25 ± 2 °C at 48 ± 4 H	TSA	Membrane Filtration - Qualitative	70-140%
	B. subtilis ATCC 6633 WDCM 00003				

Please refer to the actual batch related Certificate of Analysis.

A recovery rate of 70 % is equivalent to a productivity value of 0.7.

Literature

APHA (2012): Standard Methods for the Examination of Water. 22nd ed. American Public Health Association, American Water Works Association, Water Environment Federation, Washington, D.C.

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

Ordering Information

Product	Cat. No.	Pack size
ReadyPlate™55 TGE Agar	1.46761.0020	20 x 55mm
ReadyPlate™ 55 KIT TGE Agar	1.46762.0150	KIT*
TGE Agar	1.10128.0500	500g
EZ-Pak® Membrane Dispenser Curve	EZCURVE01	1 unit
EZ-Pak® cellulose mixed ester filter (gridded, 0,45 µm pore size)	EZHAWG474	4 x 150 pcs
S-Pak® cellulose mixed ester filter (gridded, 0,45 µm pore size)	HAWG047S6	4 boxes of 150 membrane filters, individually packed

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

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