

Technical Data Sheet

ReadyPlate™ CT

DG 18 (Dichloran Glycerol Chloramphenicol) Agar acc. ISO 21527-2

Ordering number: 1.46266.0020

For enumeration of yeast and moulds of products with less water activity.

This culture medium complies with the specifications given by ISO 21527-2.

Mode of Action

By reducing the water activity from approx. 0.99 to 0.95 with 18 % (w/w) glycerol and addition of chloramphenicol growth of bacteria is prevented. The inclusion of dichloran serves to inhibit the rapid spreading of mucoraceous fungi and restricts colony sizes of other genera, easing the colony count.

Typical Composition

Specified by ISO 21527-2:2008		ReadyPlate™ CT DG18	
Casein Enzymatic Digest	5 g/l	Casein Enzymatic Digest	5 g/l
D-Glucose	10 g/l	Glucose	10 g/l
KH ₂ PO ₄	1 g/l	KH ₂ PO ₄	1 g/l
MgSO ₄ x 1 H ₂ O	0.5 g/l	MgSO ₄	0.5 g/l
Dichloran	0.002 g/l	Dichloran	0.002 g/l
Chloramphenicol	0.1 g/l	Chloramphenicol	0.1 g/l
Agar	12-15 g/l	Agar-Agar	15 g/l
Glycerol, anhydrous	220 g/l	Glycerol, anhydrous	220 g/l
Water	1000 ml/l	Water	1000 ml/l
pH at 25 °C	5.6 ± 0.2	pH at 25 °C	5.6 ± 0.2

Application and Interpretation

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 870 (corresponds to article 146266); 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 on sterility before using it and pay attention to aseptic handling in order to avoid false positive results.

The culture medium is incubated aerobically at 24-26 °C for 5 to 7 days.

Colonies or propagules are counted and if required doubtful colonies can be examined with a (stereo-) microscope to distinguish yeast colonies from possible bacterial colonies.

The number of yeast and molds per g or ml may be counted and calculated separately if necessary.

Storage and Shelf Life

The product can be used for tests until the expiry date if stored upright, protected from light and properly sealed at +15 °C to +25 °C. Shelf life of 180 days.

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>Wallemia sebi</i> ATCC 42694	5 days at 24-26 °C	Sabouraud Dextrose Agar (SDA)	Quantitative	Recovery ≥ 50 %, characteristic colony/ propagules according to each species
	<i>Saccharomyces cerevisiae</i> ATCC 9763				
	<i>Aspergillus restrictus</i> ATCC 42693				
	<i>Eurotium rubrum</i> ATCC 42690				
Selectivity	<i>Escherichia coli</i> ATCC 8739	5 days at 24-26 °C	Sabouraud Dextrose Agar (SDA)	Qualitative	Total inhibition
	<i>Escherichia coli</i> ATCC 25922				
	<i>Bacillus subtilis</i> subsp. <i>Spizizenii</i> ATCC 6633				

Please refer to the actual batch related Certificate of Analysis.

The performance test is in accordance with the current version of EN ISO 11133

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



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Literature

Beuchat, L.R. and Hocking, A.D. (1990): Some considerations when analyzing foods for the presence of xerophilic fungi. J. Food Protect. **53**: 984-989.

ISO 21527-2:2008: Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of yeasts and moulds – Part 2: Colony count technique in products with water activity less than or equal to 0,95.

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

Ordering Information

Product	Cat. No.	Pack size	Other pack sizes available
ReadyPlate™ CT DG 18 Agar ISO 21257	1.46266.0020	20 x 55 mm	
ReadyPlate™ DG 18 Agar ISO 21257	1.46161.0020	20 x 90 mm	20 x 100 mm
GranuCult™ DG 18 Agar ISO 21257	1.00456.0500	500 g	

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