


Certificate of Analysis



Certificate of Analysis ID:	1054630500_VM1048663_EN
Producer and client:	Merck KGaA, Frankfurter Str. 250, 64293 Darmstadt, Germany
Test laboratory:	Merck KGaA Qualitätskontrolle für mikrobiologische Produkte Frankfurter Str. 250, 64293 Darmstadt, Germany
Sample identification:	Plate Count Agar (PCA) acc ISO 4833, ISO 17410, IFU, FDA-BAM and SMWW GranuCult® prime
Ordering number:	1.05463.0500
Lot number:	VM1048663
Sample ID:	201362536
Accreditation:	 <p>Deutsche Akkreditierungsstelle D-PL-15185-01-00</p>
Test method:	DIN EN ISO 11133:2020 Performance testing of solid culture media: Quantitative method (poured plate technique) Quantitative method (surface plate technique)
Date of analysis:	2023/03/27
Date of release:	2023/03/31
Minimum shelf life:	2028/02/28
Composition (g/l):	Enzymatic digest of casein 5.0; Yeast extract 2.5; D(+)Glucose 1.0; Agar-agar 14.0.
Preparation & sterilization:	Dissolve 22.5 g in 1 l of purified water. Heat in boiling water and agitate frequently until completely dissolved. Autoclave 15 min at 121 °C.
Application:	For the determination of the total microbial content from food and animal feed, water and other materials.
Storage:	Store at +15 °C to +25 °C, dry and tightly closed. Do not use clumped or discolored medium. Protect from UV light (including sun light).

The reported results refer exclusively to the specified medium, see Certificate of Analysis ID.

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Physical parameters	Specification	Lot value
Appearance (clarity):	clear	clear
Appearance (color):	yellowish to yellowish-brown	yellowish to yellowish-brown
pH-value (25 °C):	6.8 – 7.2	7.1
Solidification behaviour (2 h at 40 °C)	liquid	liquid
Solidification behaviour (4 h at 45 °C)	liquid	liquid

Microbiological Performance

Quantitative method for solid media (poured plate technique)

Test strain	Specification	Reference CFU	Test CFU	Recovery rate
Staphylococcus aureus ATCC® 6538 [WDCM 00032]	≥ 70 %	285	259	91 %
Staphylococcus aureus ATCC® 25923 [WDCM 00034]	≥ 70 %	315	290	92 %
Escherichia coli ATCC® 8739 [WDCM 00012]	≥ 70 %	253	260	103 %
Escherichia coli ATCC® 25922 [WDCM 00013]	≥ 70 %	239	220	92 %
Bacillus subtilis ATCC® 6633 [WDCM 00003]	≥ 70 %	200	185	93 %

Incubation: 72 ± 3 hours at 30 ± 1 °C aerobic

Test strain	Specification	Reference CFU	Test CFU	Recovery rate
Staphylococcus aureus ATCC® 6538 [WDCM 00032]	≥ 70 %	306	271	89 %
Staphylococcus aureus ATCC® 25923 [WDCM 00034]	≥ 70 %	320	315	98 %
Escherichia coli ATCC® 8739 [WDCM 00012]	≥ 70 %	248	265	107 %
Escherichia coli ATCC® 25922 [WDCM 00013]	≥ 70 %	256	287	112 %
Bacillus subtilis ATCC® 6633 [WDCM 00003]	≥ 70 %	325	371	114 %

Incubation: 24 hours at 35 – 37 °C aerobic

Reference medium: Tryptic Soy Agar

A recovery rate of 70 % is equivalent to a productivity rate of 0.7.
The indicated colony counts result from the sum of a triple determination.

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Microbiological Performance

Quantitative method for solid media (surface plate technique)

Test strain	Specification	Reference CFU	Test CFU	Recovery rate
<i>Pseudomonas fluorescens</i> ATCC® 13525 [WDCM 00115]	≥ 70 %	251	222	88 %
<i>Yersinia enterocolitica</i> DSM 13030 [WDCM 00216]	≥ 70 %	110	84	76 %

Incubation: up to 10 days at 6.5 ± 1 °C aerobic

Reference medium: Tryptic Soy Agar

A recovery rate of 70 % is equivalent to a productivity rate of 0.7.
The indicated colony counts result from the sum of a triple determination.

Test strain	Specification	Reference 10 – 100 CFU	Test CFU	Recovery rate
<i>Lactococcus lactis</i> * ATCC® 19435 [WDCM 00016]	≥ 70 %	63	55	87 %
<i>Listeria monocytogenes</i> * ATCC® 19118	≥ 70 %	20	15	75 %
<i>Lactobacillus acidophilus</i> * ATCC® 4356 [WDCM 00098]	≥ 70 %	17	15	88 %

Incubation: 72 ± 3 hours at 30 ± 1 °C aerobic

Reference medium: Tryptic Soy Agar

Parameters marked with an asterisk have not been tested by an accredited method.

Release: Culture medium released by Approving Officer or delegate LS-OII-QS6

Dr. Stefanie Fischer

Responsible Manager of LS-OII-QS6 (Test Laboratory D-PL-15185-01-00)

Certificate of analysis revision history:

Certificate version	Date	Status	Reason for version
01	2023/03/31	effective	Initial version