

Certificate of Analysis



Certificate of Analysis ID: 1052870500_VM1033587_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: GranuCult®
XLD (Xylose Lysine Deoxycholate) Agar acc. ISO 6579
Ordering number: 1.05287.0500
Lot number: VM1033587
Accreditation:



Test method: DIN EN ISO 11133:2020
Performance testing of solid culture media:
Quantitative method (spiralplater)
Qualitative method (streaking method)

Date of analysis: 2022/10/21
Date of release: 2022/11/04
Minimum shelf life: 2027/10/31

Composition (g/l): Yeast extract 3.0; Sodium chloride 5.0; D(+)Xylose 3.75; Lactose 7.5; Sucrose 7.5; L(+)Lysine 5.0; Sodium desoxycholate 1.0; Sodium thiosulfate 6.8; Ammonium iron(III) citrate 0.8; Phenol red 0.08; Agar-agar 14.5.

Preparation & sterilization: Dissolve 55 g in 1 l of purified water. Heat in boiling water and agitate frequently until completely dissolved. Do not autoclave! Precipitates may be formed but do not affect the performance of the culture medium.
According to ISO 6579 adjust the pH, if necessary, so that after sterilization is 7.4.

Application: For the isolation and differentiation of Salmonella 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 to slightly opalescent	clear
Appearance (color):	red	red
pH-value (25 °C):	7.2 – 7.6	7.5

Microbiological Performance

Quantitative method for solid media (poured plate method)

Test strain	Specification	Reference CFU	Test CFU	Recovery rate	Typical reaction
Salmonella typhimurium ATCC® 14028 [WDCM 00031]	≥ 50 %	246	240	98 %	passes test colonies with black center
Salmonella enteritidis ATCC® 13076 [WDCM 00030]	≥ 50 %	165	153	93 %	passes test colonies with black center

Qualitative streaking method

Test strain	Specification	Growth	Typical reaction
Escherichia coli ATCC® 8739 [WDCM 00012]	Growth or partial inhibition yellow colonies	Growth or partial inhibition	passes test yellow colonies
Escherichia coli ATCC® 25922 [WDCM 00013]	Growth or partial inhibition yellow colonies	Growth or partial inhibition	passes test yellow colonies
Enterococcus faecalis ATCC® 19433 [WDCM 00009]	total inhibition	total inhibition	-
Enterococcus faecalis ATCC® 29212 [WDCM 00087]	total inhibition	total inhibition	-

Incubation: 24 ± 3 at 37 ± 1 °C, aerobic

Reference medium: Tryptic Soy Agar

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

The indicated colony counts result from the sum of a triple determination.

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)

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Certificate of analysis revision history:

Certificate version	Date	Reason for version
01	2022/11/04	Initial version
