Certificate of Analysis

Certificate of Analysis ID:	**1072280500_VM1139828_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®** **Buffered Peptone Water** **acc. ISO 6579, ISO 19250, ISO 21528, ISO 22964, ISO 6887,** **FDA-BAM und EP**
Ordering number:	**1.07228.0500**
Lot number:	**VM1139828**
Sample ID:	**201622178**
Accreditation:	DAkkS Deutsche Akkreditierungsstelle D-PL-15185-01-00
Test method:	**DIN EN ISO 11133:2020** **Performance testing of liquid culture media:** Qualitative single tube method (turbidity) for performance testing of liquid media) Performance testing of diluents: Quantitative method
Date of analysis:	2025/07/28
Date of release:	2025/07/30
Minimum shelf life:	2030/07/31
Composition (g/l):	Peptone (includes enzymatic digest of casein) 10.0; Sodium chloride 5.0; Potassium dihydrogen phosphate 1.5; di-Sodium hydrogen phosphate dodecahydrate 9.0.
Preparation & sterilization:	Dissolve 25.5 g in 1 l of purified water. If desired dispense into smaller vessels and autoclave (15 min at 121 °C).
Application:	For the preliminary non-selective enrichment of bacteria, particularly pathogenic Enterobacteriaceae such as Salmonella and Cronobacter, and for the initial suspension and dilution of samples 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	yellowish
pH-value (25 °C):	6.8 – 7.2	7.1

Microbiological Performance

Qualitative single tube method (turbidity) for performance testing of liquid media

Test strain	Specification		Lot value	
	Inoculum	Growth	Inoculum	Growth
Escherichia coli ATCC® 25922 [WDCM 00013]	≤ 100 CFU	good to very good	85 CFU	good to very good
Escherichia coli ATCC® 8739 [WDCM 00012]	≤ 100 CFU	good to very good	54 CFU	good to very good
Salmonella typhimurium ATCC® 14028 [WDCM 00031]	≤ 100 CFU	good to very good	93 CFU	good to very good
Salmonella enteritidis ATCC® 13076 [WDCM 00030]	≤ 100 CFU	good to very good	62 CFU	good to very good
Salmonella abony NCTC 6017 [WDCM 00029]	≤ 100 CFU	good to very good	64 CFU	good to very good
Cronobacter sakazakii ATCC® 29544 [WDCM 00214]	≤ 100 CFU	good to very good	79 CFU	good to very good
Cronobacter muytjensii ATCC® 51329 [WDCM 00213]	≤ 100 CFU	good to very good	81 CFU	good to very good

Incubation: 18 ± 2 hours at 37 ± 1 °C aerobic

Salmonella abony 18 hours at 30 – 35 °C aerobic

Cronobacter 18 ± 2 hours at 34 – 38 °C aerobic

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Performance testing of diluents: Quantitative method

Test strain	Specification	Lot value		
		t_0 on TSA CFU	t_1 on TSA CFU	Recovery rate
Staphylococcus aureus ATCC® 25923 [WDCM 00034]	70 – 130 %	43	49	114 %
Escherichia coli ATCC® 25922 [WDCM 00013]	70 – 130 %	54	61	113 %
Escherichia coli ATCC® 8739 [WDCM 00012]	70 – 130 %	73	60	82 %

Incubation: 45 minutes up to 1 hour at 18 – 27 °C (laboratory ambient temperature), aerobic

Reference medium (inoculum): Tryptic Soy Agar

Release: Culture medium released by Approving Officer or delegate LS-SC-PCDQS6

L. Mechler

Dr. Lukas Mechler

Responsible Manager of LS-SC-PCDQS6 (Test Laboratory D-PL-15185-01-00)

Certificate of analysis revision history:

Certificate version	Date	Status	Reason for version
01	2025/07/30	effective	Initial version