ALLIANCE BIO EXPERTISE

Reference: FLWR3104 **A.B.E. - Technical Data Sheet**

Product: **ssTYGA - 450 ml**

Specification

Culture medium used for the growth of host-bacteria in the enumeration of somatic coliphages in samples of any type of water, sediment and sludge, according to ISO 10705-1

Presentation

	Packaging Details	Shelf Life	Storage
6 Prepared bottles Bottle 1 L with: 450 ± 10 ml	1 box with 6 bottles 1l. Injectable cap: Plastic screw inner cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended.	12 months	8-25 ºC

Composition

Composition (g/l):

Enzymatic digest of casein	10.00
Yeast extract	1.00
Sodium chloride	8.00
Agar	8.00

Description /Technique

TYGA Agar is described in ISO 10705-1 Water Quality. Detection and enumeration of bacteriophages. Part 1. For details about the technique and the procedure, the technician is referred to the aforementioned regulations.

Note: The solid mediums can be melted in different ways: autoclave, bath and, if the customer considers appropriate, also the microwave. Whenever the microwave option is chosen, it is necessary to take certain safety measures to avoid breaking of the containers, such as loosening the screw cap and putting the bottle or tube in a water bath in the microwave. The fusion temperature and time will depend on the shape of the container, the volume of medium and the heat source. Avoid overheating as both the heating periods.

Quality control

Physical/Chemical control

Color : Yellowish-amber pH: 7.2 ± 0.1 at 25ºC

Microbiological control

Melting - pour plates - inoculation Practical range 100 ± 20 CFU. min. 50 CFU (productivity) / 10^4-10^6 CFU (selectivity)

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 37 ± 1 ºC, reading after 24 ± 3 h

Microorganism	Growth
Salmonella enterica subsp. enterica ATCC® 700730 (WG49)	Good (≥70%)

Sterility control

Incubation 48 h at 30-35 ºC and 48 h at 20-25 ºC: NO GROWTH.
Check at 7 days after incubation in same conditions.

Bibliography

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· KENNEDY, J.E., G. BITTON & J.L. OBLINGER (1985) Comparison of Selective Media for Assay of Coliphages in Sewage Effluent and Lake Water. Appl. Environ. Microbiol. 49:1:33-36.
· MUNIESA, M. y J. JOFRE (1998) Abundance in Sewage of Bacteriophages That Infect Escherichia coli 0157:H7 and That Carry the Shiga Toxin 2 Gene. Appl. Environ. Microbiol. 64:7:2443-24.
· UNE-EN ISO Standard 10705-1:2002 Calidad del agua. Detección y recuento de bacteriófagos. Parte 1: Recuento de bacteriófagos ARN F específicos. International Standardization Organization. Geneva. Switzerland.