



TECHNICAL DATA SHEET

DESCRIPTION XLT 4 AGAR, 25ML FILL, 90MM PLATES
SGL PRODUCT CODE 7114

XLT 4 agar is a medium also known as Xylose Lysine Tergitpl-4 agar. It is a highly selective culture medium used for the isolation and identification of salmonellae from food and environmental samples.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Proteose peptone	1.6 g
Yeast extract	3.0 g
L-Lysine	5.0 g
Xylose	3.75 g
Lactose	7.5 g
Sucrose	7.5 g
Ammonium iron (111) citrate	0.08 g
Sodium thiosulphate	6.8 g
Sodium chloride	5.0 g
Phenol red	0.8 g
Sodium tetradecylsulphate (Tergitol) 26-28%	4.6 ml
Agar	18.0 g
Purified water	1000 ml

*Product may be adjusted and/or supplemented to meet performance criteria

QUALITY CONTROL SPECIFICATION

PHYSICAL TESTS	SPECIFICATION CRITERIA
Appearance	Clear or opaque, red coloured gel
pH at 20-25°C	7.4 ± 0.3

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 20-25°C for 5 days	No growth detected
Incubation at 35-37°C for 5 days	No growth detected
Incubation at 42-45°C for 5 days	No growth detected

GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Salmonella enteritidis</i> NCTC 5188	Good growth compared to control, red to violet-backed colonies with black centres at 35-37°C incubation after not more than 1 day
<i>Salmonella typhimurium</i> ATCC 14028 NCTC 12023	Good growth compared to control, red to violet-backed colonies with black centres at 35-37°C incubation after not more than 1 day



GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Enterococcus faecalis</i> ATCC 29212 NCTC 12697	Total inhibition at 35-37°C incubation after not more than 1 day
<i>Proteus mirabilis</i> ATCC 29906 NCTC 11938	Total inhibition at 35-37°C incubation after not more than 1 day
<i>Staphylococcus aureus</i> ATCC 25923 NCTC 12981	Total inhibition at 35-37°C incubation after not more than 1 day
<i>Escherichia coli</i> ATCC 25922 NCTC 12241 NMT 100 CFU inoculum	≤10% CFU recovery compared to control at 35-37°C incubation after not more than 1 day

NMT = Not more than

NLT = Not less than

CFU = Colony forming units

Additional specification testing may be performed as requested by the customer.

Manufactured in compliance with ISO 9001 (Ref No FM37824) and tested in accordance with ISO 11133 by a UKAS (ISO 17025) accredited laboratory (Ref No. 4356).