



TECHNICAL DATA SHEET

DESCRIPTION TOS-PROPIONATE AGAR BASE (acc. ISO), BOTTLED
SGL PRODUCT CODE 3454

Transgalactosylated oligosaccharide agar medium or Bifidobacteria selective count agar base is a medium recommended for the enumeration of presumptive Bifidobacteria from milk products using a colony count method.

The formulation of the medium is as specified in ISO 29981 (IDF 220).

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Enzymatic digest of casein	10.0 g
Yeast extract	1.0 g
Potassium dihydrogen phosphate	3.0 g
Dipotassium hydrogen phosphate	4.8 g
Ammonium sulphate	3.0 g
Magnesium sulphate heptahydrate	0.2 g
L- cysteine hydrochloride	0.5 g
Sodium propionate	15.0 g
Galactooligosaccharide	10.0 g
Agar	15.0 g
Purified water	1000 ml

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

For selective isolation of Bifidobacteria, supplement the agar with 0.05g per litre of Lithium mupirocin before use

QUALITY CONTROL SPECIFICATION

PHYSICAL TESTS	SPECIFICATION CRITERIA
Appearance	Yellowish gel
pH at 20-25°C	6.3 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 22-25°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
Bifidobacterium bifidum ATCC 29521, NCTC 13001 NMT 100 CFU inoculum	≥50% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
Lactobacillus rhamnosus NCTC 10302 NLT 1000 CFU inoculum	No growth at 30-35°C incubation after not more than 3 days

Tested after the addition of Lithium mupirocin supplement

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 by a UKAS (ISO 17025) accredited laboratory (Ref No. 4356).