TECHNICAL DATA SHEET

DESCRIPTION RAKA RAY + CYCLOHEXIMIDE, SPECIALISED, 55MM PLATES
SGL PRODUCT CODE 7646

Raka Ray agar + Polysorbate 80 (Tween 80) + Cycloheximide is a medium for the detection of lactic acid bacteria in beer and for monitoring in-process beer quality.

The medium is recommended by the European Brewing Convention and the American Society of Brewing Chemists.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Yeast extract	5.0 g
Pancreatic digest of casein	20.0 g
Liver concentrate	1.0 g
Maltose	10.0 g
Fructose	5.0 g
Glucose	5.0 g
Betaine hydrochloride	2.0 g
Di-ammonium hydrogen citrate	2.0 g
Potassium aspartate	2.5 g
Potassium glutamate	2.5 g
Magnesium sulphate $7H_2O$	2.0 g
Manganese sulphate $4H_2O$	0.66 g
Potassium phosphate	2.0 g
N-acetyl glucosamine	0.5 g
Cycloheximide	0.007 g
Polysorbate 80	10.0 ml
Agar	17.0 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 to opalescent, amber coloured gel
pH at 20-25°C	5.4 ± 0.2

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
Lactobacillus casei var. rhamnosus NCTC 10302	Good growth compared to control, white to cream coloured colonies at 30-35°C microaerophilic incubation after not more than 3 days
Escherichia coli ATCC 8739 NCTC 12923 NCIMB 8545	Good growth 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).