



TECHNICAL DATA SHEET

DESCRIPTION RAKA RAY AGAR + CYCLOHEXIMIDE + TWEEN, BOTTLED
SGL PRODUCT CODE 3340

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 |
| Dextrose | 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 ₂ O | 2.0 g |
| Manganese sulphate 4H ₂ O | 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 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 |
|---|--|
| <i>Lactobacillus casei</i> var. <i>rhamnosus</i> NCTC 10302 | Good growth comparable to control, white to cream-coloured colonies at 28-32°C incubation after not more than 3 days |
| <i>Escherichia coli</i> ATCC 8739 NCIB 8545 NCTC 12923 | *G fill only inhibited compared to control at 35-37°C incubation after not more than 1 day |
| <i>Escherichia coli</i> ATCC 8739 NCIB 8545 NCTC 12923 | Other fills excluding G fill no inhibition compared to control at 35-37°C incubation after not more than 1 day |

*G fill only Tested after the addition of 3g/L phenyl ethanol

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).