

Nutrient Agar I

TN 1164 500 g
TN 1165 5000 g



Intended use

Universal culture medium for the cultivation of fastidious microorganisms.

Form

Powder

Colour

Bright beige

Storage

Dry, tightly closed, at 10...25 °C.

Shelf life

5 years

Typical composition

Component	g/l
Meat peptone	5
Gelatin peptone	5
Casein peptone	3.5
Casein hydrolysate	3.5
Yeast extract	3
Sodium chloride	5
Agar	10

Directions

Suspend 35 g in 1 litre distilled water and heat until completely dissolved. Autoclave for 15 minutes at 121 °C and cool down to 45-50 °C. To prepare blood agar, add 5-10 % defibrinated sheep or horse blood to the cooled base medium, mix carefully and pour plates.

Final pH at 25 °C

7.2 ± 0.2

Microbiological quality control

Nutrient Agar I without the addition of blood
Incubate Nutrient Agar I aerobically for 22-24 hours at 36 ± 1 °C.

Test strain	No.	Growth
<i>Staphylococcus aureus</i>	ATCC 25923	good
<i>Streptococcus pyogenes</i>	ATCC 12344	good
<i>Enterococcus durans</i>	ATCC 10541	good
<i>Enterococcus faecalis</i>	ATCC 19433	good
<i>Salmonella</i> Typhimurium	ATCC 13311	good
<i>Shigella flexneri</i>	ATCC 29929	good

Nutrient Agar I with 5 % sheep blood added
Incubate Nutrient Agar I aerobically for 22-24 hours at 36 ± 1 °C.

Test strain	No.	Growth	Haemolysis
<i>Staphylococcus aureus</i>	ATCC 25923	good	slight β-haemolysis
<i>Streptococcus pyogenes</i>	ATCC 12344	good	clear β-haemolysis
<i>Enterococcus durans</i>	ATCC 10541	good	slight α-haemolysis
<i>Enterococcus faecalis</i>	ATCC 19433	good	no haemolysis
CAMP test with <i>Staphylococcus aureus</i> and <i>Streptococcus agalactiae</i>	ATCC 25923 and clinical isolate		CAMP-phenomenon clearly visible

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Nutrient Agar I with 1.5 g potato starch and Campylobacter Selective Supplement [REF](#) TN 1302

Incubate plates under microaerophile conditions for 40-48 hours at 42 ± 1 °C.

Test strain	No.	Growth
<i>Campylobacter jejuni</i>	ATCC 29428	good
<i>Campylobacter jejuni</i>	ATCC 33291	good
<i>Escherichia coli</i> O114	clinical isolate	no growth
<i>Proteus vulgaris</i>	clinical isolate	no growth
<i>Enterococcus faecalis</i>	clinical isolate	no growth

Nutrient Agar I with 1.5 g potato starch and Campylobacter Growth Supplement [REF](#) TN 1303, [REF](#) TN 1304

Incubate plates under microaerophile conditions for 40-48 hours at 42 ± 1 °C.

Test strain	No.	Growth
<i>Campylobacter jejuni</i>	ATCC 29428	good
<i>Campylobacter jejuni</i>	ATCC 33291	good
<i>Escherichia coli</i> O114	clinical isolate	good
<i>Proteus vulgaris</i>	clinical isolate	good
<i>Enterococcus faecalis</i>	clinical isolate	good