Stratech

Culture Media Ingredients

Peptone and Yeast Extract

CE
Conformité Européenne

Synthesis of proteins and nucleic acids by microorganisms and cells requires nitrogen sources. **SRL** Peptones and Yeast extracts are one of the best sources of organic nitrogen. They provide —

- *Excellent media consistency & solubility in water*
- *Balanced composition of essential amino acids and peptones*
- *Excellent microbiological characteristics*
- *Excellent performance in growth of large range of microorganisms, fastidious and non-fastidious*
- *High yield of protein production by recombinant cells*
- *High yield of metabolite production*

95292 Peptone BactoBio for bacteriology
(Peptic digest of animal tissue)

500g, 5kg, 25kg and bulk packing on request

Peptone is manufactured by controlled enzymatic hydrolysis of animal tissues. It is used as an organic nitrogen source in microbiological culture media for cultivation of a variety of bacteria and fungi.

All the raw materials used in the manufacturing process are of Indian origin, where no TSE/BSE has been reported.

Description	Light to medium tan, free flowing, homogeneous powder
Solubility (2.0% solution)	Light to medium amber, clear
Final pH at 25°C	7.0 ± 0.5 (2%)
Stability after autoclaving	Light to medium amber, clear
Loss on Drying	< 5.0%
Total Nitrogen	11.5 – 15.5%
Total Aerobic Microbial Count	< 10,000 cfu/gm
Growth Promoting Properties	Good

We also offer
51960 Peptone BioVeg BactoBio for bacteriology

34266 Yeast Extract BactoBio for bacteriology

100g, 500g, 5kg, 10kg and bulk packing on request

Yeast extract is a spray dried extract made from baker's yeast – *(Saccharomyces cerevisiae)*; which is specifically made of yeast for cell nutrition purposes.

It is an excellent source of soluble proteins, amino acids, vitamins, nucleotides and essential elements and provides multi-functional nutritional supplements in various cell culture applications. It is also widely used in microbial fermentations.

Yeast extract added in LB Media is extensively used in recombinant DNA work and other molecular biology procedures and applications.

Description	Brownish yellow, free flowing, homogeneous powder
Solubility	Medium amber to yellowish brown, clear
pH at 25°C	7.0 ± 0.5 (2%)
Stability after autoclaving	Medium amber to yellowish brown, clear
Loss on Drying	< 5.0%
Total Nitrogen	9.0 – 11.0 %
Total Aerobic Microbial Count	< 10,000 cfu/gm
Growth Promoting Properties	Good

We also offer
89463 Yeast Extract for bacteriology

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Conformité Européenne

Nutrient and MacConkey Agar

63971 Nutrient Agar

100g, 500g and bulk packing on request

This relatively simple medium contains Peptone, Beef extract and Yeast extract which provides carbon, nitrogen and vitamin sources for growth requirements of microorganisms. Sodium chloride maintains the osmotic balance. Agar is used as a solidifying agent.

Composition	grams/litre
Peptone	5.00
Yeast extract	2.00
Beef extract	1.00
Sodium chloride	5.00
Agar	15.00
pH at 25°C	7.4 ± 0.2

Nutrient Agar provides excellent growth promoting properties, quick solubility and excellent gel strength.

We also offer

73478	Nutrient Agar BioVeg
18953	Nutrient Agar (I)
18876	Nutrient Agar 1.5% (I)
84955	Nutrient Agar 1.5%
48275	Nutrient Agar for Oxidase (I)
75435	Nutrient Agar w/ Manganese
73153	Nutrient Agar w/MUG
50427	Nutrient Agar w/ 1% Peptone
70955	Nutrient Agar No. 2 (B/S)
17137	Nutrient Agar No. 2
58561	Nutrient Agar, pH 6.8
96434	Nutrient Agar, pH 7.0 (I)
38009	Nutrient Agar, pH 7.0 (B/S)
67948	Nutrient Agar pH 6 w/ 0.8 % NaCl

76875 MacConkey Agar

100g, 500g and bulk packing on request

Peptic Digest of animal tissue and Proteose Peptone provide nitrogen and other nutrients. Bile salts and Crystal violet are inhibitory agents for gram positive organisms. Lactose utilizing bacteria produce acid which lowers the pH of the medium below 6.8 and results in appearance of red/pink colonies.

Non lactose fermenting bacteria cannot utilize lactose and will use peptone instead, this forms ammonia which raises the pH of the medium and leads to formation of colourless colonies.

Composition	grams/litre
Peptone	17.00
Proteose peptone	3.00
Bile salts	1.50
Lactose	10.00
Sodium chloride	5.00
Neutral Red	0.03
Crystal Violet	0.001
Agar	13.50
pH at 25°C	7.1 ± 0.2

MacConkey Agar gives excellent colony characteristics and differentiation, quick solubility and excellent gel strength.

We also offer

96871	MacConkey Agar BioVeg
37775	MacConkey Agar, Harmonized
80302	MacConkey Agar w/ MUG
71117	MacConkey Agar (B/S)
83870	MacConkey Agar, Base
26823	MacConkey Agar Medium
95199	MacConkey Agar, Modified
98384	MacConkey Agar w/ Bromothymol Blue
58370	MacConkey Agar w/ 0.15% Bile salts, C.V. and NaCl (U/P)
33759	MacConkey Agar w/o C.V., w/ 1.2% Agar
50372	MacConkey Agar w/o C.V., NaCl w/ 0.5% Sodium Taurocholate
79447	MacConkey Agar w/o C.V. w/ 0.15% Bile Salts
64300	MacConkey Agar w/o C.V. w/ 0.5% Bile Salts
64024	MacConkey Agar w/o C.V., NaCl, w/ 0.0075% NR, 1.2% Agar BioVeg
64030	MacConkey Agar w/o C.V., NaCl w/ 0.5% Bile Salts
72074	MacConkey Agar No. 3
98664	MacConkey Sorbitol Agar (Sorbitol Agar)
57340	MacConkey Sorbitol Agar, Base (I)

Culture Media for Biotechnology and Industrial applications

Applications of microbiology is creating new industrial revolution. Pharmaceuticals, cosmetics, molecular biology, hospitals, research institutions and so on...
the applications in industries where dehydrated culture media products are used are varied and many. Microbial species which have potential for industrial application are continually being sought. To aid the industrial microbiologist various culture media products are available.

Few media used in these industries are —

33291 Soyabean Casein Digest Agar

100g, 500g, 2kg and bulk packing on request

Composition	grams/litre
Pancreatic digest of casein	15.00
Papaic digest of soyabean meal	15.00
Sodium Chloride	5.00
Agar	15.00

is used for isolation and cultivation of fastidious and non-fastidious microorganisms.

63971 Nutrient Agar

100g, 500g and bulk packing on request

Composition	grams/litre
Agar	15.00
Peptone	2.00
Sodium Chloride	5.00
Yeast extract	2.00
Beef extract	1.00

is used for the cultivation and maintenance of a wide variety of microorganisms.

28501 Soyabean Casein Digest Medium

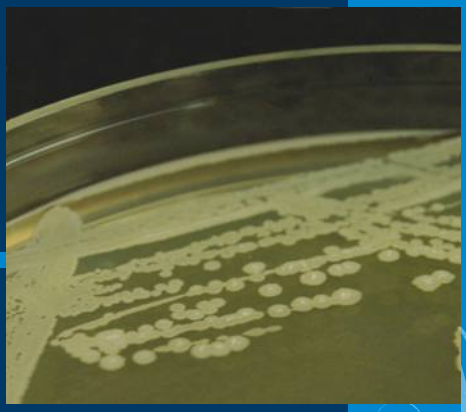
100g, 500g, 2kg and bulk packing on request

Composition	grams/litre
Enzymatic digest of casein	17.00
Papaic digest of soyabean meal	3.00
Glucose	2.50
Dipotassium phosphate	2.50
Sodium chloride	5.00

is used for growth of wide variety of bacteria and fungi.

Sterility Testing

52023	Alternative Thioglycollate Medium, (I/P) (U/P)
33355	Brewer Thioglycollate Medium
93023	Fluid Thioglycollate Medium, Clear (U/P)
42917	Fluid Thioglycollate Medium, (U/P) (I/P)
46990	Fluid Thioglycollate Medium, *Harmonized*
35979	Soyabean Casen Digest Agar (U/P) (I/P)
77892	Soyabean Casen Digest Agar, *Harmonized*
33291	Soyabean Casen Digest Agar
10935	Soyabean Casen Digest Medium, *Harmonized*
28501	Soyabean Casen Digest Medium
91690	Thioglycollate Medium w/o Indicator
24392	Tryptone Soya Broth



Bacillus subtilis on Luria Bertani Agar

All media are formulated to yield higher and better qualitative and quantitative results.

In BioTechnology, achieving accurate, reproducible and repeatable microbiological test results is of utmost importance. This depends upon the quality of microbiological media used.

SRL understands this critical requirement and hence maintains batch consistency to yield reproducible results.

Molecular Biology

46502 Luria Bertani Agar, Lennox
47436 Luria Bertani Agar, Miller
14593 Luria Bertani Broth, Lennox
29817 Luria Bertani Broth, Miller
97970 Luria Bertani Agar w/o Sodium Chloride
22006 Luria Bertani Broth w/o Sodium Chloride (LB Growth Medium w/o Sodium Chloride)
40826 Luria Bertani Agar, Miller BioVeg
17320 Luria Bertani Broth, Miller BioVeg
30086 Terrific Broth
68957 M9CA Medium
23184 M9 Minimal Salts 5×
54250 Yeast Peptone Dextrose Agar
66995 YPD Broth

Few Broth media used in these industries are —

14593 Luria Bertani Broth, Lennox

100g, 500g, 2kg and bulk packing on request

Composition	grams/litre
Tryptone	10.00
Yeast extract	5.00
Sodium Chloride	5.00

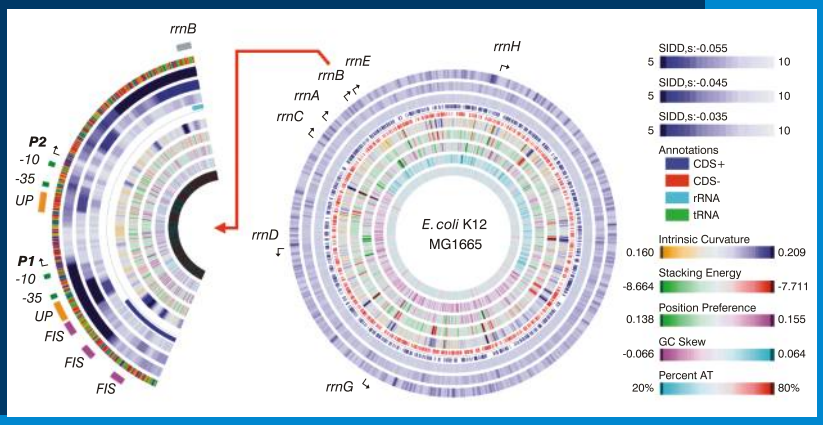
29817 Luria Bertani Broth, Miller

100g, 500g, 2kg and bulk packing on request

Composition	grams/litre
Tryptone	10.00
Yeast extract	5.00
Sodium Chloride	10.00

14593 and 29817 are used for maintaining and propagating Escherichia coli in molecular microbiology procedures.

The dissolution of media, especially broth media, is such that it quickly dissolves in water, thus providing increased solubility.



Genome Atlas of E. coli K-12, the most routinely used strain in molecular biology

Few Fungal media used in these industries are —

35208 Potato Dextrose Broth

100g, 500g and bulk packing on request

Composition	grams/litre
Potatoes infusion from	200.00
Dextrose	20.00

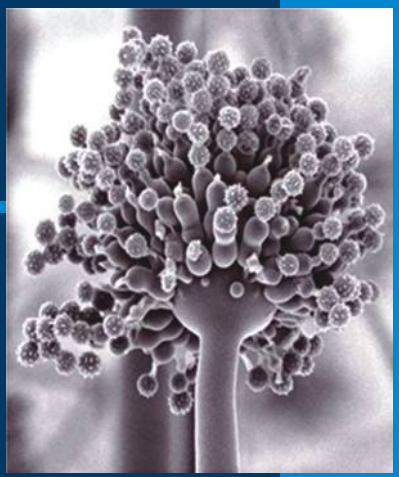
71788 Potato Dextrose Agar

100g, 500g, 2kg,, 5kg and bulk packing on request

Composition	grams/litre
Potatoes infusion from	200.00
Dextrose	20.00
Agar	15.00

35208 and 71788 are used for cultivation and isolation of fungal organisms.

It gives enhanced sporulation in many fungi.



Aspergillus sps.

stratech.co.uk/srl
info@stratech.co.uk
SISCO RESEARCH LABORATORIES PVT. LTD.
www.srlchem.com

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