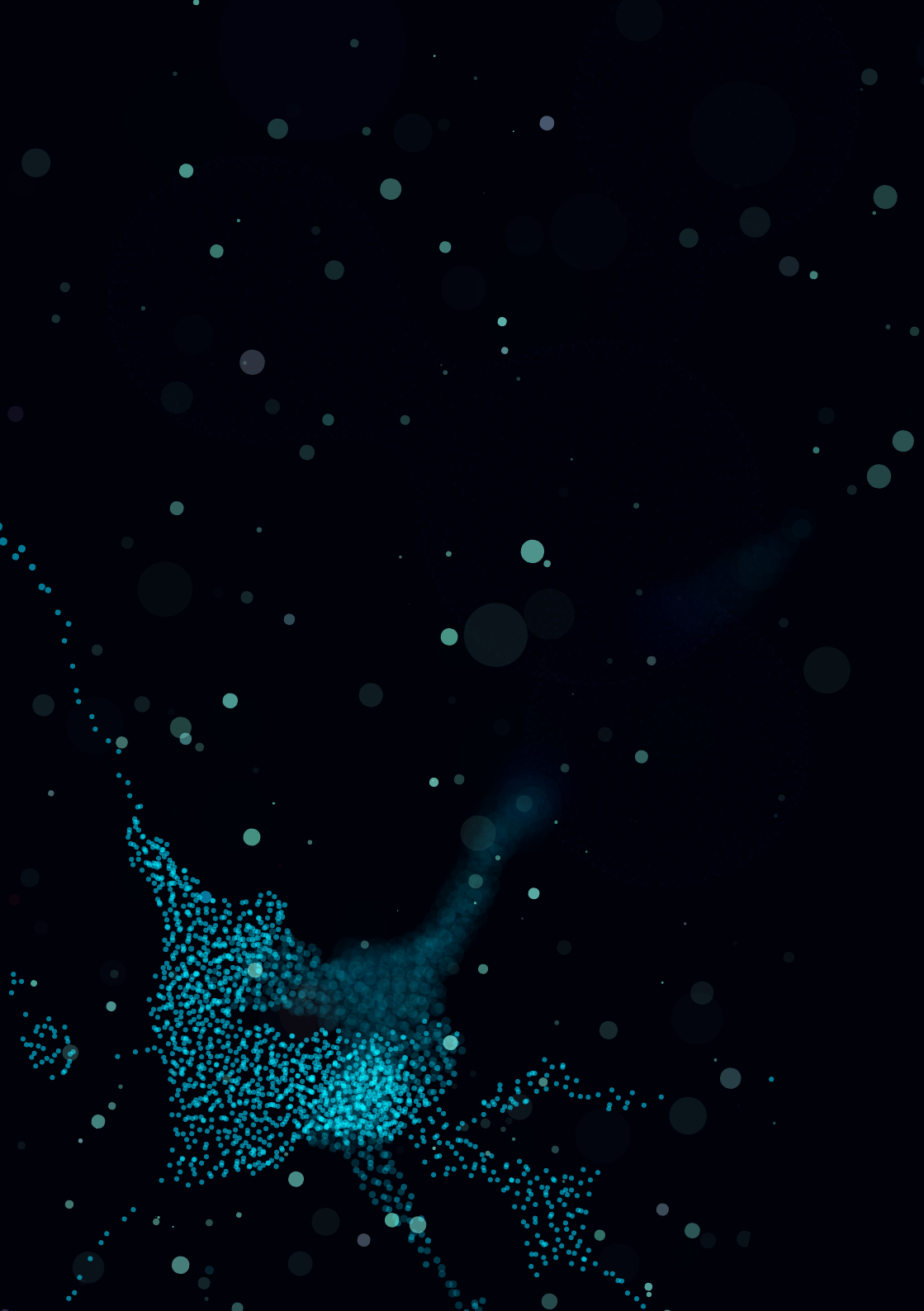


ANIMAL FREE MEDIA

PRODUCT CATALOGUE 2025/26





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ANIMAL FREE MEDIA FOR GROWTH OF E. COLI CULTURES

Formedium has added six animal free media to its Vegetal range of culture media for growth of E. coli. In all six Vegetal media, Tryptone has been replaced by Soya Peptone, for the following formulations of LB Miller medium, LB Lennox medium and 2YT medium. Soya Peptone and Yeast Extract are present as a general nitrogen source for growth and protein expression. Both are excellent sources for nitrogen and additionally Yeast Extract provides B-type vitamins, carbohydrates and growth factors.

In vegetal media, thus avoiding any contamination of medium with constituents of animal origin, Tryptone is replaced by Soya Peptone. In contrast to Tryptone, which is a pancreatic digest of bovine milk casein, its replacement Soya Peptone is made by Papaic hydrolysis of Soya Bean meal. Nitrogen content of Soya Peptone (9.5 %) compared to Tryptone is slightly lower and the same for its amino nitrogen content (3 %). This difference of less than two percent does not notably influence growth and protein expression.

"A comparative study between the use of Tryptone as a nitrogen source and Soya Peptone as an alternative source showed no difference in growth."

In liquid media cell growth of E. Coli is measured by optical density at 680nm this did not show any significant variance between growth curves of cells cultured in LB Miller Broth, LB Lennox Broth and 2YT Broth medium containing Tryptone or Soya Peptone.

In solid media counts of Colony Forming Units (CFU) of LB Lennox Agar, LB Miller Agar and 2YT Agar containing Tryptone or Soya Peptone did not significantly differ from each other.

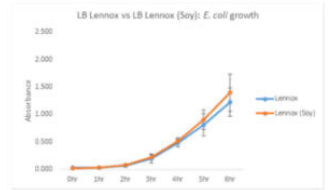
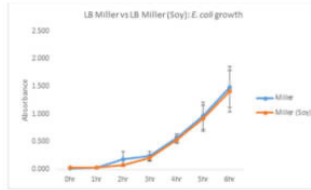
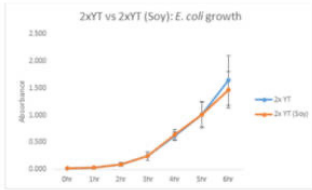
No substantial difference could be noted between media containing Soya Peptone and Tryptone. Soya Bean Peptone performed as well compared to the use of Tryptone in both liquid and solid media.

In all three media LB Miller Vegetal medium, LB Lennox Vegetal medium and 2YT Vegetal medium including Soya Peptone, no animal sourced constituents are present. Due to the absence of animal sourced components Formedium certifies;

No raw material sourced or derived from animals are used in the manufacture of this product.

The materials used in the production are in compliance with the European directive 75 / 318 / EEC as amended by Directive 1999 / 82 / EC.

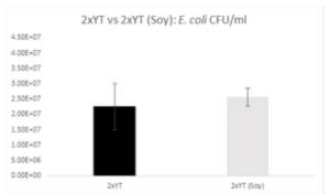
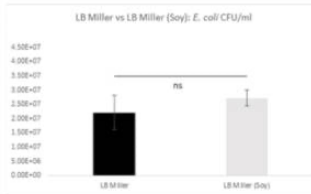
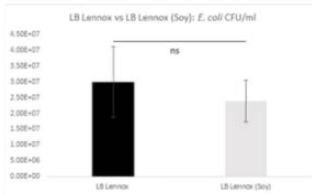
Therefore Formedium Ltd. takes the position that this product is free of any risk in terms of Bovine Spongiform Encephalopathy (BSE) or Transmissible Spongiform Encephalopathy (TSE).



METHODS

Broth culture: Cell growth was measured in LB Lennox, LB Miller and 2YT medium. Each medium was present in a formulation containing Tryptone or Soya Peptone.

- Single colony incubated in 5 ml of all three media tested (3 Tryptone vs 3 Soya Bean peptone) O/N @ 37 °C 180 rpm.
- Following day 1:100 dilution, 30 ml culture in 150 ml flask incubated @ 37 °C 180 rpm. Growth measured by optical density at 680nm, measured hourly
- 3 biological repeats
- LB Lennox (g/l); Soya peptone 10 or Tryptone 10, Yeast extract 5, NaCl 5.
LB Miller (g/l); Soya peptone 10 or Tryptone 10, Yeast extract 5, NaCl 10.
2YT; (g/l); Soya peptone 16 or Tryptone 16, Yeast extract 10, NaCl 5.



METHODS

Agar culture on plates: The number of Colony Forming units was measured in LB Lennox, LB Miller & 2YT Agar plates. Each medium was present in a formulation containing Tryptone or Soya Peptone.

- Single colony incubated in 5 ml of all three media tested (3 Tryptone vs 3 Soya Bean peptone) O/N @ 37 °C 180 rpm.
- Following day 100 µl of 10-fold dilution series (to 10⁻⁶) was spread onto the same medium as agar (e.g., Miller broth colony onto Miller agar, Lennox-Soya colony onto Lennox-Soya agar). Incubated O/N @ 37 °C
- Colony count (cfu/ml) for 3 biological repeats
- LB Lennox (g/l); Soya peptone 10 or Tryptone 10, Yeast extract 5, NaCl 5, Agar 15.
LB Miller (g/l); Soya peptone 10 or Tryptone 10, Yeast extract 5, NaCl 10, Agar 15.
2YT; (g/l); Soya peptone 16 or Tryptone 16, Yeast extract 10, NaCl 5, Agar 15.

2X VYT AGAR

SKU	SIZE
VYTA1L	1 Litre pack
VYTA2L	2 Litre pack
VYTA5L	5 Litre pack
VYTA10L	10L pack
VYTA20L	20 Litre pack
VYTA0250	250g
VYTA0500	500g
VYTA1000	1kg
VYTA6000	6 x 1kg



Formula	g/l
Soya Peptone	16
Yeast extract	10
NaCl	5
Agar	15
Final pH	7.0 ± 0.2 at 25°C

Suspend 46 gram powdered medium in 1 litre distilled water. Store dry at room temperature.

2X VYT BROTH

SKU	SIZE
VYTB1L	1 Litre pack - 31g
VYTB2L	2 Litre pack
VYTB5L	5 Litre pack
VYTB10L	10L pack - 310g
VYTB20L	20 Litre pack
VYTB0250	250g
VYTB0500	500g
VYTB1000	1kg
VYTB6000	6 x 1kg



Formula	g/l
Tryptone	16
Yeast extract	10
NaCl	5
Final pH	7.0 ± 0.2 at 25°C

Suspend 31 gram powdered medium in 1 litre distilled water. Store dry at room temperature.

SOYA PEPTONE

SKU	SIZE
VPEP01	250g
VPEP02	500g
VPEP03	1000g
VPEP04	6 x 1kg

Soya Peptone is a papaic digest of defatted soybean flour and is a well-balanced source of essential amino acids, carbohydrates and vitamins in cell cultures.

Soya Peptone is used for growth of a wide variety of bacteria and yeasts in cell cultures and is often combined with Tryptone or Peptone for a rapid and abundant growth of cells.

This plant peptone is classified animal-free by Formedium Ltd. Based on the manufacturing protocol, we attest that no animal raw materials are prescribed for use in the production of this product, nor are any of the raw materials derived from animal products.

Soya Peptone is classified animal free, GMO free (according to the European Directive 2001/18/CE).

Store dry at room temperature



VL6 MEDIUM INCLUDING GLUCOSE

SKU	SIZE
VL60101	250g
VL60102	1kg
VL60103	6 x 1kg

VL6 is a complex medium for cultivation of *Discoideum dycytostelium* based on Vegetable Peptone.

Formedium Ltd have recognised the need for a range of meat-free products. This has led to the development of VL6, an animal component free alternative medium compared to traditional Dicty media such as HL5 and HL5C.

VL6 is composed of a Vegetable peptone providing high molecular weight peptides and proteins as a nitrogen source. Yeast Extract is a source of vitamins, co-factors and carbohydrates. A Phosphate buffer is present to inhibit acidification of the medium during cell growth.

As most vegetable peptones contain almost no Tryptophane VL6 is supplemented with an extra quantity of this amino acid and some other amino acids. Essential trace elements and vitamins as present in FM and SIH media are added for those Dicty cultures needing additional nutritionals for starting up vigorous growth or protein synthesis.

Suspend 35.95g in 1L of Distilled or De-ionised Water.

Components		
Vegetable Peptone	10	g/L
Yeast extract	7	g/L
Potassium Dihydrogen Phosphate	1.2	g/L
Disodium Hydrogen Phosphate	0.35	g/L
Glucose	12	g/L
Trace elements	0.1	g/L
VL6 Amino acid supplement	5.3	g/L
	35.95	



GHS07 Skin & Eye Irritation

The materials used in the production are in compliance with the European Directive 75/318/EEC as amended by Directive 1999/82/EC.

Therefore Formedium takes the position that this product is free of any risk in terms of Bovine Spongiform Encephalopathy (BSE) or Transmissible Spongiform Encephalopathy (TSE).

**HYGROSCOPIC Store at Room Temperature
DO NOT BREATHE DUST Keep Container
Tightly Closed
WARNING GHS-07 SKIN & EYE IRRITATION**

VL6 MEDIUM WITHOUT GLUCOSE

SKU	SIZE
VL60201	250g
VL60202	1kg
VL60203	6 x 1kg

VL6 is a complex medium for cultivation of *Discoideum dycytostelium* based on Vegetable Peptone.

Formedium Ltd have recognised the need for a range of meat-free products. This has led to the development of VL6, an animal component free alternative medium compared to traditional Dicty media such as HL5 and HL5C.

VL6 is composed of a Vegetable peptone providing high molecular weight peptides and proteins as a nitrogen source. Yeast Extract is a source of vitamins, co-factors and carbohydrates. A Phosphate buffer is present to inhibit acidification of the medium during cell growth.

As most vegetable peptones contain almost no Tryptophane VL6 is supplemented with an extra quantity of this amino acid and some other amino acids. Essential trace elements and vitamins as present in FM and SIH media are added for those Dicty cultures needing additional nutritionals for starting up vigorous growth or protein synthesis.

Suspend 23.95g in 1L of Distilled or De-ionised Water.

Components		
Vegetable Peptone	10	g/L
Yeast extract	7	g/L
Potassium Dihydrogen Phosphate	1.2	g/L
Disodium Hydrogen Phosphate	0.35	g/L
Glucose	12	g/L
Trace elements	0.1	g/L
VL6 Amino acid supplement	5.3	g/L
	35.95	



GHS07 Skin & Eye Irritation

The materials used in the production are in compliance with the European Directive 75/318/EEC as amended by Directive 1999/82/EC.

Therefore Formedium takes the position that this product is free of any risk in terms of Bovine Spongiform Encephalopathy (BSE) or Transmissible Spongiform Encephalopathy (TSE).

HYGROSCOPIC Store at Room Temperature
DO NOT BREATHE DUST Keep Container
Tightly Closed
WARNING GHS-07 SKIN & EYE IRRITATION

VLB-AGAR LENNOX

SKU	SIZE
VLBAL1L	1L Pack
VLBAL2L	2L Pack
VLBAL5L	5L Pack
VLBAL10L	10L Pack
VLBAL20L	20L Pack
VLBAL0250	250g
VLBAL0500	500g
VLBAL1000	1000g
VLBAL6000	6 x 1kg

Formula	g/l
Soya Peptone	12
Yeast Extract	24
NcCl	9.4
Agar	2.2

Suspend 35 gram powdered medium in 1 litre distilled water. Store dry at room temperature.



VLB-AGAR MILLER

SKU	SIZE
VLBAM1L	1L Pack
VLBAM2L	2L Pack
VLBAM5L	5L Pack
VLBAM10L	10L Pack
VLBAM20L	20L Pack
VLBAM0250	250g
VLBAM0500	500g
VLBAM1000	1000g
VLBAM6000	6 x 1kg

Formula	g/l
Soya Peptone	10
Yeast Extract	5
NcCl	10
Agar	15
Final pH	7.0 ± 0.2 at 25°C

Suspend 40 gram powdered medium in 1 litre distilled water. Store dry at room temperature.



VLB-BROTH LENNOX

SKU	SIZE
VLBBL1L	1L Pack
VLBBL2L	2L Pack
VLBBL5L	5L Pack
VLBBL10L	10L Pack
VLBBL20L	20L Pack
VLBBL0250	250g
VLBBL0500	500g
VLBBL1000	1000g
VLBBL6000	6 x 1kg

Formula	g/l
Soya Peptone	10
Yeast Extract	5
NcCl	5
Final pH	7.0 ± 0.2 at 25°C

Suspend 20 gram powdered medium in 1 litre distilled water. Store dry at room temperature.



VLB-BROTH MILLER

SKU	SIZE
VLBBM1L	1L Pack
VLBBM2L	2L Pack
VLBBM5L	5L Pack
VLBBM10L	10L Pack
VLBBM20L	20L Pack
VLBBM0250	250g
VLBBM0500	500g
VLBBM1000	1000g
VLBBM6000	6 x 1kg

Formula	g/l
Soya Peptone	10
Yeast Extract	5
NcCl	10
Final pH	7.0 ± 0.2 at 25°C

Suspend 25 gram powdered medium in 1 litre distilled water. Store dry at room temperature.







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