Пептоны и экстракты
Технические характеристики

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Acid Casein Peptone (H)

Cat. 1604

Casein acid hydrolysate used as an ingredient in culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Acid Casein Peptone is an acid hydrolysate of casein. The agent in a complete or total acid hydrolysis is commonly hydrochloric acid (6-8 N). Acid hydrolysis is a crude process that cleaves all peptide bonds. Acid hydrolysis results commonly to a total hydrolysis of protein to amino acids. The process destroys glutamine, asparagines, tryptophan, cysteine, serine, threonine, lysine, aspartic acid, proline racemizes amino acids and completely destroys vitamins.

As this peptone is free from vitamins, it is used for the determination of vitamin content by microbiological methods. It has a good solubility and clarity when dissolved

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>4%	4,95%
Total nitrogen (TN)	>7,5%	7,95%
Loss on drying	<6%	3,3%
AN/TN Ratio	N/A	62,26%
Ash	<45%	33,1%
pH (2% solution)	6,0-7,5	7,0

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Standard plate count	<5.000 CFU/g
Yeast and molds	<100 CFU/g
Coliforms	Negative
Salmonella	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Bacteriological Gelatin

Cat. 1704

Nutrient and solidifying agent for culture media.

Practical information

Aplications	Categories
Detection	Positive gelatinase

Industry: Ingredients for culture media / Manufacturing process

Principles and uses

Bacteriological Gelatin is used for the preparation of microbiological culture media (generally incorporated in media at 3-5%). In addition to providing nutrients for bacterial growth, is used to investigate the presence of proteolytic microorganisms, as evidenced by the liquefaction of gelatin, especially in the bacteriological analysis of water. Also, it helps the culture medium to solidify.

Physical-chemical characteristics

Description	Specification
Ash	<1%
Bloom	275±10 bloom
Viscosity	50±7 mps
pH	Report

Microbiological test

Description	Specification
Salmonella	Negative
E. coli	<3 CFU/g
Standard plate count	<1000 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Bacteriological Ox Bile

Cat. 1710

Inhibiting agent for culture media.

Practical information

Aplications	Categories
Growth	

Industry: Ingredients for culture media / Manufacturing process

Principles and uses

Bacteriological Ox Bile is prepared by a low temperature dehydration process. It is used as a selective inhibitory agent in culture media such as Brilliant Green Bile Broth 2%.

Physical-chemical characteristics

Description	Specification
Loss on drying	<6%
pH (2% solution)	7,5-9,2
Colic acid	>45%

Grownth supporting properties

Descripción	Value
Brilliant Green 2% Bile Broth	Good/Bueno

Microbiological test

Description	Specification
Yeast and molds	<100 CFU/g
Coliforms	Negative
Salmonella	Negative
Standard plate count	<5.000 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Bacteriological Peptone

Cat. 1616

Enzymatic digest of animal origin that is used as an ingredient in culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Bacteriological Peptone is a high-quality hydrolysate produced by the enzymatic digestion of animal tissues. Enzymatic digestion produces amino acids, including essential amino acids and peptides, the enzymes normally used are trypsin and pepsin.

It is widely used in culture media and has been used extensively in the production of toxins, vaccines and other biological products.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>2,7 %	3,5 %
Total nitrogen (TN)	>10,0 %	15,48 %
Loss on drying	<6 %	3,00 %
AN/TN Ratio	N/A	22,6 %
Ash	<15 %	4,2 %
pH (2% solution)	6,5-7,5	6,9

Elemental profile

Descripción	Value
Calcium	0,018%
Potassium	1,10%
Sodium	0,97%
Magnesium	0,01%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Arginine	7,16	Valine	2,31	Leucine	2,84
Aspartic acid	6,34	Glicine	20,60	Fenilalanine	1,88
Cystine	0,13	Tryptophan	0,06	Serine	3,45
Glutamic acid	9,58	Alanine	7,89	Isoleucine	2,63
Histidine	0,89	Lisine	3,61	Proline	11,46
Metionine	0,85	Tirosine	0,71	Treonine	1,87

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Coliforms	Negative
Salmonella	Negative
Yeasts and molds	<100 CFU/g
Standard plate count	<5.000 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Beef Extract

Cat. 1700

Extract of bovine tissue used as an ingredient for culture media.

Practical information

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Beef Extract is prepared from very low fat bovine skeletal muscle and marrow, which is spinal column free with no tendons. Beef Extract is highly nutritious and is used in preparing microbiological culture media. It is recommended for use in culture media for the bacteriological examination of water, milk and other materials

Physical-chemical characteristics

Description	Specification	Typical Analysis
Total nitrogen (TN)	>10,0%	12,5%
Loss on drying	<6%	2,5%
Ash	<15%	9,4%
pH (2% solution)	6,5-7,5	6,8

Elemental profile

Descripción	Value
Magnesium	0,019%
Calcium	0,011%
Potassium	2,6%
Sodium	1,6%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	3,28	Serine	4,37	Cystine	0,35
Glutamic acid	15,86	Threonine	3,56	Glycine	2,29
Histidine	2,08	Tryptophan	0,97	Methionine	1,63
Isoluecine	3,91	Tyrosine	1,68	Phenylalanine	3,58
Leucine	6,50	Arginine	3,22	Proline	6,91
Lysine	5,98	Aspartic acid	6,60	Valina	4,85

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Yeasts and molds	<100 CFU/g

Coliforms	Negative
Salmonella	Negative
Standard plate count	<5.000 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Bile Salts Nº 3

Cat. 1706

Selective inhibitory agent in bacteriological culture media.

Practical information

Aplications	Categories
Detection	Enterobacteria

Industry: Ingredients for culture media / Manufacturing process

Principles and uses

Bile Salts N° 3 is a mixture of bile extracts especially prepared for use in selective media such as MacConkey Agar (Cat.1052) and Salmonella Shigella Agar (Cat.1064). It is an excellent inhibitor of Gram-positive bacteria such as streptococci and staphylococci.

Physical-chemical characteristics

Description	Specification
Loss on drying	<5%
pH (2% solution)	7,5-9
Appearance	White powder
Solubility (2% autoclaved solution)	Clear
Sodium cholate	45,0 - 55,0 %
Sodium deoxycholate	45,0 - 55,0 %
Heavy metals	-

Microbiological test

Description	Specification
Standard plate count	<5.000 col/g
Coliforms	Negative
Yeast and molds	<100 col/g
Salmonella	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Bovine Heart Infusion

Cat. 1714

Nutrient-rich medium that promotes the growth of microorganisms.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Bovine Heart Infusion is an especially formulated preparation of dried infusion from bovine hearts supplied as a light, fine powder for use in microbiological culture media.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Total nitrogen (TN)	>10,0%	11%
Loss on drying	<6%	3,5%
Ash	<15%	10,1%
pH (2% solution)	6,5-7,5	7

Elemental profile

Descripción	Value
Calcium	0,009%
Sodium	3,60%
Magnesium	0,02%
Potassium	1,40%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Aspartic acid	6,05	Glycine	2,50	Arginine	3,55
Lysine	6,01	Threonine	3,12	Cystine	0,31
Methionine	1,75	Tryptophan	0,87	Glutamic acid	15,97
Phenylalanine	3,66	Tyrosine	1,31	Histidine	2,13
Proline	7,04	Valine	4,73	Isoleucine	3,91
Serine	4,54	Alanina	3,20	Leucine	6,68

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification

Coliforms	Negative
Standard plate count	<5.000 CFU/g
Salmonella	Negative
Yeasts and molds	<100 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Casein CC Peptone

Cat. 1603

Pancreatic and enzymatic digest used as a source of amino acids and nutrients in culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Casein CC Peptone is a pancreatic digest of casein enriched with enzymatic digest of animal tissue. Pancreatic digestion produces a balanced mixture of amino acids, including essential amino acids in optimal ration and low molecular peptides. Enzymatic digestion produces amino acids, including essential amino acids and peptides. The enzymes normally used are trypsin and pepsin. It is a superior source of nutrients widely used in pharmaceutical and veterinary industries.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,9%	4,15%
Total nitrogen (TN)	>10,0%	13,10%
Loss on drying	<6%	3,15%
AN/TN Ratio		31,67%
Ash	<15%	6,80%
pH (2% solution)	6,5-7,5	6,8

Elemental profile

Descripción	Value
Calcium	0,02%
Magnesium	0,0069%
Sodium	2,20%
Potassium	1,80%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	2,94	Isoleucine	4,44	Glycine	1,88
Arginine	3,36	Leucine	7,60	Histidine	2,39
Serine	5,02	Threonine	3,96	Methionine	2,31
Cystine	0,41	Valine	5,50	Phenylalanine	4,13
Lysine	6,63	Aspartic acid	6,28	Proline	8,62
Tyrosine	1,85	Glutamic acid	17,90	Tryptophan	0,92

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Salmonella	Negative
Coliforms	Negative
Yeasts and molds	<100 CFU/g
Standard plate count	<5.000 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Casein Peptone

Cat. 1602

Pancreatic digest source of amino acids and low molecular weight peptides.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Casein Peptone is a pancreatic digest of casein. Pancreatic digestion produces a balanced mixture of amino acids, including essential amino acids, in optimal ration and low molecular peptides. In many cases, this makes for a more nutritious hydrolysate, especially for those organisms that prefer peptides to amino acids.

It can be used in the production of toxins, vaccines, enzymes, in fermentation applications and microbiological culture media, especially in blood-containing media.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,9%	4,20%
Total nitrogen (TN)	>10,0%	13,13%
Loss on drying	<6%	3,30%
AN/TN Ratio	N/A	32%
Ash	<15%	6%
pH (2% solution)	6,5-7,5	6,8

Elemental profile

Descripción	Value
Calcium	0,019%
Magnesium	0,0079%
Potassium	1,30%
Sodium	2,10%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	2,91	Histidine	2,38	Phenylalanine	4,11
Arginine	3,30	Isoleucine	4,45	Proline	8,65
Aspartic acid	6,99	Lysine	6,60	Threonine	3,91
Cystine	0,44	Methionine	2,32	Tryptophan	0,95
Glutamic acid	18,74	Serine	5,08	Tyrosine	1,86
Glycine	1,86	Leucine	7,62	Valine	5,51

Grownth supporting properties

Descripción	Value

Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Yeast and molds	<100 CFU/g
Salmonella	Negative
Standard plate count	<5.000 CFU/g
Coliforms	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Casein Peptone HALAL

Cat. 1635

Casein Peptone HALAL is a digest of casein, free from animal enzymes.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Culture media ingredients / Manufacturing process

Principles and uses

Casein Peptone HALAL is a digest of casein, free from animal enzymes.
It is recommended for fermentation, and microbiological media where clearness is mandatory.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,70%	3,81%
Total nitrogen (TN)	>10,00%	12,47%
Loss on drying	<6,00%	2,69%
Ash	<15%	8,18%
pH (2% solution)	6,50-7,50	7,08

Grownth supporting properties

Descripción	Value
Escherichia coli ATCC 25922	Good/Bueno
Staphylococcus aureus ATCC 25923	Good/Bueno
Shigella flexneri ATCC 12022	Good/Bueno
Enterococcus faecalis ATCC 29212	Good/Bueno
Pseudomonas aeruginosa ATCC 27853	Good/Bueno
Streptococcus pyogenes ATCC 19615	Good/Bueno
Streptococcus pyogenes ATCC 49117	Good/Bueno
Streptococcus pneuomoniae ATCC 6305	Good/Bueno

Microbiological test

Description	Specification
Salmonella	Negative
Standard plate count	<5.000 CFU/g
Yeast and molds	<100 CFU/g
Coliforms	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

CondaLow Casein Peptone

Cat. 1636

Casein peptone with low endotoxin content.

Practical information

Aplications	Categories
Growth	General use

Industry: Culture media ingredients / CondaLow

Principles and uses

CondaLow Casein Peptone is a pancreatic digest of casein. The controlled manufacturing process ensures a low endotoxin content.

This peptone is an excellent source of nutrients that meets the requirements of cell culture . It can be used in tissue culture media, vaccine and antibody production, and in an extensive BioPharma process.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>=3,90%	4,20%
Total nitrogen (TN)	>=10,00%	13,13%
Loss on drying	<=6,00%	3,30%
AN/TN Ratio	N/A	32,00
Ash	<=15,00%	6,00%
pH (2% solution)	6,50-7,50	6,80

Elemental profile

Descripción	Value
Calcium	0,019%
Magnesium	0,0079%
Sodium	2,10%
Potassium	1,30%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Glutamic acid	18,74	Isoleucine	4,45	Leucine	7,62
Proline	8,65	Phenylalanine	4,11	Alanine	2,91
Aspartic acid	6,99	Treonine	3,91	Histidine	2,38
Lysine	6,60	Arginine	3,30	Metionine	2,32
Valine	5,51	Glycine	1,86	Tryptophan	0,95
Serine	5,08	Tyrosine	1,86	Cystine	0,44

Microbiological test

Description	Specification
Endotoxins	<200 EU/g
Yeast and molds	<100 CFU/g

Coliforms	Negative
Standard plate count	<1.500 CFU/g
Salmonella	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

CondaLow Meat Peptone

Cat. 1637

Meat peptone with low endotoxin content.

Practical information

Aplications	Categories
Growth	General use

Industry: Culture media ingredients / CondaLow

Principles and uses

CondaLow Meat Peptone is a enzymatic digest of animal tissue. The controlled manufacturing process ensures a low endotoxin content.

This peptone is an excellent source of nutrients that meets the requirements of cell culture . It can be used in tissue culture media, vaccine and antibody production, and in an extensive BioPharma process.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>=3,40%	3,70%
Total nitrogen (TN)	>=10,00%	12,30%
Loss on drying	<=6,00%	2,70%
AN/TN Ratio	N/A	30,00
Ash	<=15,00%	9,20%
pH (2% solution)	6,50-7,50	6,90

Elemental profile

Descripción	Value
Calcium	0,072%
Magnesium	0,029%
Potassium	2,70%
Sodium	2,50%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Glutamic acid	11,62	Cisteine	0,37	Alanine	5,62
Lisine	4,30	Serine	2,95	Aspartic acid	5,61
Phenylalanine	2,61	Glycine	8,37	Valine	3,50
Treonine	2,46	Leucine	4,50	Isoleucine	2,63
Methionine	0,85	Arginine	4,08	Histidine	1,31
Tryptophan	0,59	Proline	6,29	Tyrosine	1,11

Microbiological test

Description	Specification
Endotoxins	< 200 EU/g
Standard plate count	< 1.500 CFU/g

Yeast and molds	< 100 CFU/g
Coliforms	Negative
Salmonella	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

CondaLow Soy Peptone

Cat. 1618

Soy peptone with low endotoxin content. GMO-free Animal-free.

Practical information

Aplications	Categories
Growth	General use

Industry: Culture media ingredients / CondaLow

Principles and uses

CondaLow Soy Peptone is a product obtained from soy protein, whose controlled manufacturing process ensures a low endotoxin content in the final product.

This peptone is an excellent source of peptides, vitamins, and carbohydrates. It is used in cell culture media, providing better cell density and increased protein production. It is also used in the production of vaccines and in other biopharmaceutical processes.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>=2,20%	3,10%
Total nitrogen (TN)	>=7,00%	9,76%
Loss on drying	<=6,00%	3,70%
AN/TN Ratio	N/A	34,84
Ash	<=15,00%	9,00%
pH (2% solution)	6,50-7,50	7,30

Elemental profile

Descripción	Value
Calcium	0,039%
Magnesium	0,099%
Potassium	4,50%
Sodium	3,16%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Glutamic acid	11,83	Methionine	0,86	Threonine	2,61
Aspartic acid	9,00	Valine	2,94	Isoleucine	2,55
Leucine	3,90	Glycine	2,47	Proline	2,54
Alanine	3,18	Cystine	0,79	Tyrosine	1,38
Argininne	3,05	Lysine	3,85	Histidine	1,23
Phenylalanine	2,40	Serine	2,69	Tryptophan	0,68

Microbiological test

Description	Specification
Endotoxins	<200 EU/g

Standard plate count	<1.500 CFU/g
Salmonella	Negative
Yeast and molds	<100 CFU/g
Coliforms	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

CondaLow Wheat Peptone

Cat. 1638

Wheat peptone with low endotoxin content.

Practical information

Aplications	Categories
Growth	General use

Industry: Culture media ingredients / CondaLow

Principles and uses

Condalow Wheat Peptone is an animal free protein hydrolysate based on wheat protein with a low content of endotoxins.

It is a nutrient source that support general requirements of cell culture. It can be used in tissue culture media, vaccines and antibodies production and a wide BioPharma process.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Ash	<15%	14,8%
Amino Nitrogen (AN)	> 1,00%	1,78%
Total Nitrogen (TN)	>10,00%	12,33%
AN/TN Ratio	N/A	14,44%
Loss on drying	<6%	2,58%
pH (2% solution)	6,5-7,5	6,73

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Glutamic acid	30,0	Alanine	2,08	Arginine	2,43
Tryptophan	0,62	Proline	13,3	Tyrosine	2,26
Serine	3,85	Leucine	5,53	Threonine	2,08
Phenylalanine	4,48	Glycine	3,27	Histidine	1,52
Serine	3,85	Isoleucine	2,81	Lysine	1,20
Valine	3,26	Aspartic acid	2,52	Cystine	1,00
				Methionine	0,806

Microbiological test

Description	Specification
Endotoxins	<200 EU/g
Standard plate count	<1.500 CFU/g
Yeast and molds	<100 CFU/g
Salmonella	Negative
Coliforms	Negative

Storage

Temp. Min.:2 ºC

Temp. Max.:25 ºC

Gelatin Peptone

Cat. 1606

Pancreatic digest of porcine origin, source of amino acids and low molecular weight peptides.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Gelatin Peptone is a pancreatic digest of porcine skin. Pancreatic digestion produces a balanced mixture of amino acids, including essential amino acids, in optimal ration and low molecular peptides.

It is low in fermentable carbohydrates and is used in culture media, especially for non-fastidious microorganisms. It is also used in fermentation studies.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>2,7%	3,5%
Total nitrogen (TN)	>10,0%	15,48%
Loss on drying	<6%	3%
AN/TN Ratio	N/A	22,6%
Ash	<15%	4,2%
pH (2% solution)	6,5-7,5	6,9

Elemental profile

Descripción	Value
Calcium	0,018%
Magnesium	0,01%
Potassium	1,10%
Sodium	0,97%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Arginine	7,16	Alanine	7,89	Isoleucine	2,63
Aspartic acid	6,34	Leucine	2,84	Lysine	3,61
Cystine	0,13	Phenylalanine	1,88	Prolina	11,46
Glutamic acid	9,58	Serine	3,45	Threonine	1,87
Histidine	0,89	Valine	2,31	Tryptophan	0,06
Methionine	0,85	Glycine	20,60	Tyrosine	0,71

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Coliforms	Negative
Yeasts and molds	<100 CFU/g
Standard plate count	<5.000 CFU/g
Salmonella	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Lactalbumin Hydrolysate

Cat. 1626

Peptide, amino acid and carbohydrate mixture used for the elaboration of culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Culture media ingredients / Manufacturing process

Principles and uses

Lactoalbumin Hydrolysate is the enzymatically hydrolyzed protein portion of milk whey. It is a mixture of peptides, amino acids and carbohydrates, simple and complex. It is used for preparing bacterial, insect and mammalian cell culture
media.

Physical-chemical characteristics

Description	Specification	Typical Analysis
AN/TN Ratio	N/A	42,7%
Amino nitrogen (AN)	>4,8%	5,3%
Total nitrogen (TN)	>10,0%	12,4%
Loss on drying	<6%	2,5%
Ash	<15%	9,4%
pH (2% solution)	6,5-7,5	6,8

Elemental profile

Descripción	Value
Calcium	0,078%
Magnesium	0,027%
Potassium	0,83%
Sodium	2,1%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Aspartic acid	7,59	Leucine	6,52	Serine	4,72
Cystine	0,76	Alanine	3,20	Threonine	4,58
Glutamic acid	17,12	Arginine	1,36	Tryptophan	1,17
Glycine	1,83	Methionine	1,60	Tyrosine	0,97
Histidine	2,02	Phenylalanine	3,08	Valine	5,07
Isoleucine	4,30	Proline	7,37	Lysine	6,68

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Coliforms	Negative
Yeasts and molds	<100 CFU/g
Salmonella	Negative
Standard plate count	<5.000 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Liver Peptone

Cat. 1703

Digested papaic, source of nutrients for culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Culture media ingredients / Manufacturing process

Principles and uses

Liver peptone is a papaic digest of liver controlled by enzymatic hydrolysis. It can be used in some culture media as a superior source of nutrients.

Physical-chemical characteristics

Description	Specification
Amino nitrogen (AN)	4-6 %
Total nitrogen (TN)	10,0- 12,0 %
Loss on drying	<6%
pH (2% solution)	5,5-6,5
Nitrites	Negative
2% Solution Test	Total
Color	Brown
Appearance	Powder
Sulfuric ashes	<17%
Chlorides (as NaCl)	<2%
Stability after autoclaving (2% solution)	Stable

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Serine	3,0	Lysine	4,8	Valine	5,6
Glutamic acid	9,0	Arginine	1,3	Methionina	1,7
Leucine	5,7	Trheonine	3,3	Tryptophan	/
Tyrosine	1,1	Proline	3,4	Aspartic acid	6,6
Phenylalanine	3,8	Alanina	4,6	Glycine	5,3
Histidine	5,7	Cysteine	/	Isoleucine	3,5

Microbiological test

Description	Specification
Total aerobic microbial count	<5.000 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Malt Extract

Cat. 1708

Extract with a high content of carbohydrates and vitamins, used for the cultivation of molds and yeasts in particular.

Practical information

Aplications	Categories
Nitrogen source	General use
Carbon source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Malt extract is prepared by successive purifications, removing all enzymatic activity. In solution, it has a very light color. It is particularly well suited for culturing yeasts and molds, allowing the sporulation of molds such as Aspergillus and Penicillium. It has high carbohydrate content and should not be heated in excess to avoid the darkening of the medium. Malt Extract provides carbon, protein and nutrients in culture media.

Malt Extract is one of few peptones that is not used strictly for nitrogen content, but for its high level of carbohydrates and vitamins.

This peptone is classified as animal free, GMO-free.

Physical-chemical characteristics

Description	Specification
Loss on drying	< 6%
pH (1.5%) after autoclaving	4,5-5,5
Color	Beige
Appearance	Powder
Sulfuric ashes	<5%
Solubility (1,5 % solution)	Total
Optical density (2% solution 400nm)	<0,5
Stability after autoclaving (1,5% solution)	Stable
Maltose	>70%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Asparic acid	0,9	Methionine	0,2	Glycine	0,4
Threonine	0,4	Isoleucina	0,5	Alanine	0,4
Serine	0,4	Leucine	0,6	Phenylalanine	0,7
Glutamic acid	0,16	Tyrosine	0,3	Histidine	0,6
Cisteine	/	Arginine	0,5	Lysine	0,6
Valina	0,6	Proline	0,6	Thryptophan	/

Microbiological test

Description	Specification
Total aerobic microbial count	< 5.000 CFU/g
Total yeast and moulds count	<100 CFU/g
Coliforms	<10 CFU

Storage

Temp. Min.:10 ºC
Temp. Max.:35 ºC

Meat Peptone

Cat. 1600

Enzymatic digest of animal origin, source of peptides and amino acids for the preparation of culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Meat Peptone is an enzymatic digest of animal tissue. Meat peptones are proteins from animal sources that have been hydrolyzed or broken down into amino acids and peptides, to provide nitrogen for microorganisms. Meat peptones can be tailored to specific nutritive needs of microorganisms by controlling the quality and origin of the protein, the quality and source of the enzyme used to digest the protein, and the method used for hydrolysis, concentration and drying the peptone. It can be incorporated into a variety of liquid and solid culture media formulations for the cultivation of fastidious and non-fastidious microorganisms.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,4%	4,21%
Total nitrogen (TN)	>10,0%	12,3%
Loss on drying	<6%	2,70%
AN/TN Ratio	N/A	30%
Ash	<15%	9,2%
pH (2% solution)	6,5-7,5	6,9

Elemental profile

Descripción	Value
Calcium	0,072%
Magnesium	0,029%
Potassium	2,70%
Sodium	2,50%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Arginine	4,08	Isoleucine	2,63	Proline	6,29
Aspartic acid	5,61	Lysine	4,30	Threonine	2,46
Cystine	0,37	Methionine	0,85	Tyrosine	1,11
Glutamic acid	11,62	Serine	2,95	Valine	3,50
Glycine	8,37	Leucine	4,60	Tryptophan	0,59
Histidine	1,31	Phenylalanine	2,61	Alanine	5,62

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Coliforms	Negative
Yeasts and molds	<100 CFU/g
Standard plate count	<5.000 CFU/g
Salmonella	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Peptonized Milk

Cat. 1628

Nutrient source used for the cultivation and isolation of lactobacilli and streptococci.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Peptonized Milk is a pancreatic digest of fat-free milk which is used primarily in culture media for the isolation and growth of lactobacilli and streptococci in dairy products.

Physical-chemical characteristics

Description	Specification	Typical Analysis
AN/TN Ratio	N/A	32,4%
Amino nitrogen (AN)	>1,9%	2,4%
Total nitrogen (TN)	>6,0%	7,41%
Loss on drying	<6%	4,3%
Ash	<10%	8,4%
pH (2% solution)	6,5-7,5	6,7

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	1,56	Serine	2,73	Proline	4,81
Aspartic acid	3,86	Threonine	2,18	Leucine	4,25
Cistina	0,28	Tryptophan	0,52	Tyrosine	1,20
Glutamic acid	10,01	Histidine	1,29	Valine	2,98
Glycine	1,07	Isoleucine	2,43	Arginine	1,71
Methionine	1,02	Phenylalanine	2,18	Lysine	3,35

Grownth supporting properties

Descripción	Value
Peptona agar	Good/Bueno

Microbiological test

Description	Specification
Salmonella	Negative
Standard plate count	<5.000 CFU/g
Yeasts and molds	<100 CFU/g
Coliforms	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Polypeptone

Cat. 1610

Mixture of peptones source of amino acids and vitamins for the cultivation of microorganisms.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Polypeptone is a mixture of peptones made up of equal parts of pancreatic digest of casein and peptic digest of animal tissue. Includes the high content of amino acids and small polypeptides characteristic of peptic digest of animal tissue. Polypeptone provides nitrogen, amino acids and vitamins in microbiological culture. It can be used in general culture media as a superior source of nutrients. The growth of some microorganisms may be better than when the individual peptones are used.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,7%	4,10%
Total nitrogen (TN)	>10,0%	13,12%
Loss on drying	<6%	3,40%
AN/TN Ratio	N/A	31,3%
Ash	<15%	8,80%
pH (2% solution)	6,5-7,5	6,8

Elemental profile

Descripción	Value
Calcium	0,03%
Magnesium	0,014%
Sodio	2,12%
Potassium	1,60%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanin	4,05	Methionine	1,81	Arginine	3,76
Aspartic acid	8,83	Phenylalanine	3,34	Glycine	5,70
Cystine	0,43	Proline	8,21	Isoleucine	3,44
Glutamic acid	15,9	Serine	4,33	Leucine	5,99
Histidine	1,81	Tyrosine	1,42	Threonine	3,31
Lysine	5,50	valine	4,37	Tryptophan	0,80

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Standard plate count	<5.000 CFU/g
Salmonella	Negative
Yeast and molds	<100 CFU/g
Coliforms	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Pork Brain Heart Infusion

Cat. 1712

Extract of porcine origin, source of nutrients for the elaboration of culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Pork Brain Heart Infusion is a specially formulated preparation of dried extract of pork hearts and pork brains supplied as a light, yellow-brown fine powder. It is a suitable substitute for Bovine Brain Heart Infusion in selected microbiological culture media.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Total nitrogen (TN)	>10,0%	11,81%
Loss on drying	<6%	3,5%
Ash	<15%	9,2%
pH (2% solution)	6,5-7,5	7,25

Elemental profile

Descripción	Value
Potassium	2,11%
Calcium	0,020%
Magnesium	0,012%
Sodium	4,09%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	3,47	Leucina	5,80	Glutamic acid	15,04
Arginine	3,31	Lysine	5,40	Isoleucine	3,35
Aspartic acid	8,78	Methionine	1,65	Phenylalanine	3,15
Cystine	0,50	Tryptophan	0,87	Prolina	6,25
Glycine	3,45	Tyrosine	1,49	Serine	3,80
Histidine	1,72	Valine	4,21	Threonine	6,27

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification

Salmonella	Negative
Coliforms	Negative
Standard plate count	<5.000 CFU/g
Yeast and molds	<100 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Pork Heart Infusion

Cat. 1716

Extract of porcine origin, source of nutrients for the elaboration of culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Pork Heart Infusion is a specially formulated preparation of dried infusion from pork hearts supplied as a light fine powder. It is a substitute for Bovine Heart Infusion in selected microbiological culture media.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Ash	<15%	10,50%
Total Nitrogen (TN)	>10%	11,7%
Loss on drying	<6%	4%
pH (2% solution)	6,5-7,5	7,1

Elemental profile

Descripción	Value
Calcium	0,018%
Magnesium	0,012%
Potassium	2,36%
Sodium	3,96%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	3,32	Leucine	5,83	Valine	4,24
Arginine	3,08	Lysine	5,43	Fenilalanina	3,15
Aspartic acid	8,77	Methionine	1,65	Proline	5,84
Glycine	2,55	Serine	3,81	Cystine	0,54
Histidine	0,05	Threonine	3,33	Glutamic acid	14,77
Isoleucine	3,39	Tryptophan	0,91		

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification

Coliforms	Negative
Salmonella	Negative
Standard plate count	<5.000 CFU/g
Yeast and molds	<100 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Pork Meat Peptone

Cat. 1624

Enzymatic hydrolysate source of amino acids and peptides for the elaboration of culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Culture media ingredients / Manufacturing process

Principles and uses

Pork Meat Peptone is an enzymatic hydrolysate of porcine animal tissue. It can be substituted for Meat Peptone (Bovine) in culture media formulations.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,4%	3,7%
Total nitrogen (TN)	>10,0%	11,81%
Loss on drying	<6%	3,5%
Ash	<15%	9,2%
pH (2% solution)	6,5-7,5	7,25

Elemental profile

Descripción	Value
Calcium	0,020%
Sodium	4,09%
Magnesium	0,012%
Postassium	2,11%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	3,47	Threonine	6,27	Arginina	3,31
Isoleucine	3,35	Tryptophan	0,87	Glutamic acid	15,04
Leucine	5,80	Tyrosine	1,49	Glycine	3,45
Methionine	1,65	Valine	4,21	Lysine	5,40
Proline	6,25	Aspartic acid	8,78	Cystine	0,50
Serine	3,80	Histidine	1,72	Phenylalanine	3,15

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Yeast and molds	<100 CFU/g
Salmonella	Negative
Coliforms	Negative
Standard plate count	<5.000 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Proteose peptone

Cat. 1609

Enzymatic digest of animal origin, source of nutrients for the cultivation of microorganisms.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Culture media ingredients / Manufacturing process

Principles and uses

Proteose Peptone is an enzymatic digestion of animal tissues. It is commonly used in the preparation of culture media for the production of toxins, and in the fermentation industry for starter cultures. It is a highly nutritious source for the growth of a wide range of microorganisms.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,4%	4,30%
Total nitrogen (TN)	>10,0%	12,57%
Loss on drying	<6%	3,00%
AN/TN Ratio	N/A	34,20%
Ash	< 16 %	7,8%
pH (2% solution)	6,5-7,5	6,7

Elemental profile

Descripción	Value
Calcium	0,024%
Magnesium	0,023%
Potassium	1,40%
Sodium	2,70%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Arginine	3,54	Phenylalanine	3,53	Isoleucine	3,66
Aspartic Acid	6,50	Serine	4,30	Proline	7,11
Cystine	0,38	Alanine	3,49	Threonine	3,46
Leucine	6,68	Glutamic Acid	15,51	Tryptophan	0,80
Lysine	5,81	Glycine	3,41	Tyrosine	1,59
Methionine	1,64	Histidine	1,98	Valine	4,82

Grownth supporting properties

Descripción	Value
Peptona agar	Good/Bueno

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Proteose Peptone Nº3

Cat. 1607

Enzymatic digest of animal origin, source of nutrients for the cultivation of microorganisms.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Culture media ingredients / Manufacturing process

Principles and uses

Proteose Peptone N° 3 is a high quality hydrolysate produced by the enzymatic digestion of animal tissues. It is widely used in culture media and has been used extensively in the manufacture of toxins, vaccines, enzymes and other biological products. This product provide nitrogen in a form that is readily available for bacterial growth

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,4%	4,35%
Total nitrogen (TN)	>10,0%	12,42%
Loss on drying	<6%	3,20%
AN/TN Ratio	N/A	35,02%
Ash	<16 %	8,20%
pH (2% solution)	6,5-7,5	6,7

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	3,48	Glutamic Acid	16,14	Methionine	1,77
Phenylalanine	3,56	Glycine	2,90	Tyrosine	1,58
Proline	6,95	Histidine	1,99	Valine	4,89
Serine	4,30	Isoleucine	3,83	Arginine	3,29
Threonine	3,57	Leucine	6,50	Aspartic Acid	6,69
Tryptophan	0,95	Lysine	5,95	Cystine	0.47

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Salmonella	Negative
Standard plate count	<5.000 CFU/g
Coliforms	Negative
Yeast and molds	<100 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Soy Peptone GMO-Free and Animal-Free

Cat. 1615

Papaic/pancreatic soy extract, source of vitamins and carbohydrates for the cultivation of fungi and bacteria.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Soy Peptone is a papaic digest of soy which. Due to its high carbohydrate content, is suitable for the cultivation of a broad variety of organisms, including anaerobics, fungi and germs which grow with difficulty.

The raw material to produce this soy peptone is guaranteed to be GMO-Free and Animal-Free (eliminates TSE/BSE issues).

Physical-chemical characteristics

Description	Specification
Ash	<=15%
Amino Nitrogen (AN)	2-3%
Total Nitrogen (TN)	9-11%
Loss on drying	<5%
pH (2% solution)	6,5-7,5
2% Solution Test	Clear
Solubility (2% autoclaved solution)	Clear
Phosphate compatibility	Clear

Storage

Temp. Min.:8 ºC
Temp. Max.:30 ºC

Tryptone

Cat. 1612

Pancreatic digest of casein, source of amino acids and peptides for the elaboration of culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Tryptone is a pancreatic digest of casein containing all amino acids found in casein as well as larger peptide fractions. This product is recommended for preparing media where enzymatic hydrolyzed casein is desired. It is an excellent nutrient for use in culture media for producing antibiotics, toxins, enzymes and other biological products. This product is widely used in the pharmaceutical and veterinary industries and the diagnostic culture media industry.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,9%	4;20%
Total nitrogen (TN)	>10,0%	13,13%
Loss on drying	<6%	3,30%
AN/TN Ratio	N/A	32%
Ash	<15%	6%
pH (2% solution)	6,5-7,5	6,8

Elemental profile

Descripción	Value
Calcium	0,019%
Magnesium	0,0065%
Sodium	2,10%
Potassium	0,95%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanine	2,87	Isoleucine	4,48	Valine	5,51
Arginina	3,31	Proline	8,65	Lysine	6,51
Aspartic acid	6,52	Serine	5,08	Methionine	2,35
Cystine	0,40	Threonine	3,91	Histidine	2,29
Glutamic acid	18,70	Tryptophan	1,05	Leucine	7,63
Glycine	1,79	Tyrosine	1,86	Phenylalanine	4,09

Grownth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Salmonella	Negative
Coliforms	Negative
Standard plate count	<5.000 CFU/g
Yeasts and molds	<100 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Tryptose

Cat. 1614

Mixture of peptones that act as a nitrogen source for the cultivation of fastidious microorganisms.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Tryptose is a mixed enzymatic hydrolysate with distinctive nutritional properties. It is an excellent sole source of nitrogen, demonstrating superiority over Meat Peptone in this regard. It is used to grow many fastidious microorganisms such as Brucella, Streptococcus, and Neisseria.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>2,9%	4,40%
Total nitrogen (TN)	>10,0%	13,40%
Loss on drying	<6%	3,20%
AN/TN Ratio	N/A	32,50%
Ash	<15%	9,70%
pH (2% solution)	6,5-7,5	7,4

Elemental profile

Descripción	Value
Sodium	3,41%
Calcium	0,001%
Magnesium	0,022%
Potassium	0,679%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Cystine	0,44	Methionine	1,92	Valine	1,93
Alanine	4,45	Phenylalanine	7,52	Threonine	3,55
Arginine	4,65	Proline	6,33	Aspartic acid	6,34
Histidine	<0,01	Serine	4,09	Glutamic acid	13,92
Isoleucine	0,34	Tryptophan	0,62	Glycine	2,84
Lysine	4,64	Tyrosine	2,21	Leucine	3,67

Grownth supporting properties

Descripción	Value
Peptona agar	Good/Bueno

Microbiological test

Description	Specification
Salmonella	Negative
Coliforms	Negative
Standard plate count	<5.000 CFU/g
Yeast and molds	<100 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Yeast extract

Cat. 1702

Source of vitamins, B complex in particular, amino acids and other growth factors for the development of culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Yeast extract is a concentrate of the water-soluble portion of selected strain yeast cells, specially grown on a molasses-based media, that have been autolyzed.

It is rich in vitamins, especially B-complexes, amino acids and other growth factors. It is used in many microbiological culture media formulations as an excellent growth source.

Yeast extract is considered a non-animal product and is used extensively for many non-animal formulations of bacterial, fungal, mammalian and insect cell culture.

Physical-chemical characteristics

Description	Specification
Ash	<16%
Amino Nitrogen (AN)	>4,5%
Total Nitrogen (TN)	>10%
pH	6,8-7,2
Chlorides (as NaCl)	<0,5%
Dry matter	>94%
Proteins	>62,5%

Microbiological test

Description	Specification
Total mesophilic bacteria	<5.000 CFU/g
Total coliforms	<5 CFU/g
Yeasts	<50 CFU/g
Molds	<50 CFU/g
E. coli	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Yeast extract

Cat. 1736

Source of vitamins, B complex in particular, amino acids and other growth factors for the development of culture media.

Practical information

Aplications	Categories
Nitrogen source	General use

Industry: Fermentation / Culture media ingredients / Manufacturing process

Principles and uses

Yeast extract is a concentrate of the water-soluble portion of selected strain yeast cells, specially grown on a molasses-based media, that have been autolyzed.

It is rich in vitamins, especially B-complexes, amino acids and other growth factors. It is used in many microbiological culture media formulations as an excellent growth source.

Yeast extract is considered a non-animal product and is used extensively for many non-animal formulations of bacterial, fungal, mammalian and insect cell culture.

Physical-chemical characteristics

Description	Specification
Ash	<16%
Amino Nitrogen (AN)	>4,5%
Total Nitrogen (TN)	>10%
pH	6,8-7,2
Chlorides (as NaCl)	<0,5%
Dry matter	>94%

Microbiological test

Description	Specification
Total mesophilic bacteria	<5.000 CFU/g
Total coliforms	<5 CFU/g
Salmonella /25g	Negative

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Yeast Extract Bioprocess Grade

Cat. 1721

Source of vitamins, amino acids and other growth factors for the development of culture media.

Practical information

Aplications	Categories
Nitrogen source	

Industry: Fermentation / Ingredients for culture media

Principles and uses

Yeast Extract Bioprocess Grade is obtained by autolysis of primary grown Saccharomyces cerevisiae.

It is rich in proteins, peptides, amino acids, nucleotides, vitamins, trace elements and low endotoxin. Its nutrients promote the growth and metabolism of microorganisms and cells.

Yeast Extract Bioprocess Grade meet the requirements of high-end bio-fermentation such as genetically engineered pharmaceuticals,hyaluronic acids, vaccines, etc.

An important characteristic is the high performance, cost-effective, consistent between different batches which meet the requirements of the high-end bio-fermentation, laboratory culture media and microbiology test.

Widely used in large scale industry fermentation, such as amino acids, probiotics, starter culture, organic acids, antibiotics, enzymes, vitamins and other bio-based products.

Physical-chemical characteristics

Description	Specification
Ash	<15%
Moisture	<6%
Amino Nitrogen (AN)	>5%
Total Nitrogen (TN)	>10%
pH (2% solution)	6,8-7,2
Arsenic	<0,5 mg/kg
Lead	<1,0 mg/kg
Chlorides (as NaCl)	<1%

Microbiological test

Description	Specification
Aerobic count	<5.000 CFU/g
Coliforms	< 0,3 MPN/g
Salmonella	Negative/25g
Staphylococcus aureus	Negative/25g
Shigella	Negative/25g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

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