Агары
Технические характеристики

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American Bacteriological Agar

Cat. 1802

Gelling agent for culture media.

Practical information

Industry: Ingredients for culture media

Principles and uses

Bacteriological agar is a gelling agent used in the preparation of culture media and in other routine bacteriological applications. Its main advantage is the absence of inhibitors which could hinder optimal development of micro-organisms. In addition, bac- teriological agar also possesses other attributes such as high transparency, high hysteresis and very reliable reproducibility. Bacteriological Agar American-type gives lower gel strength and is utilized at concentrations ranging from 1,2% to 1,6%. Each batch produced by us is thoroughly tested for biological performance against a battery of known bacterial cultures in order to ensure proper growth characteristics and absence of inhibitors. Also, other tests are carried out to be certain that each batch meets established physical and chemical specifications.

Physical-chemical characteristics

Description	Specification
Loss on drying	<=12%
Ash	<=6,5%
pH (1.5%) before autoclaving	6,0-7,5
pH (1.5%) after autoclaving	6,0-7,5
Melting point (1.5%)	85 - 90 ºC
Turbidity before autoclaving (1,5%)	<=8NTU
Particle size	>95 % 60 mesh
Gelling point (1.5%)	34 - 38 ºC
Colorimetry before autoclaving (450 mm)	<=0,25
Colorimetry after autoclaving (450 mm)	<=0,25
Turbidity after autoclaving (1,5 %)	<=8NTU
Gel strength before autoclaving (Nikan method at 1,5% at 20ºC)	600-850g/cm2
Gel strength after autoclaving (Nikan method at 1,5% at 20ºC)	600-850 g/cm2

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

European Bacteriological Agar

Cat. 1800

Gelling agent for culture media.

Practical information

Industry: Ingredients for culture media

Principles and uses

Bacteriological agar is a gelling agent used in the preparation of culture media and in other bacteriological applications. Its main advantage is the absence of inhibitors which could hinder optimal development of microorganisms. In addition, bacterio-logical agar also possesses other attributes such as transparency, high hysteresis and very reliable reproducibility. Bacteriological agar European Type has higher gel strength and is used in concentrations from 1,0% to 2,0%. Each batch produced by us is thoroughly tested for biological performance against a battery of known bacterial cultures in order to ensure proper growth characteristics and absence of inhibitors. Also, other tests are carried out to be certain that each batch meets established physical and chemical specifications.

Physical-chemical characteristics

Description	Specification
Loss on drying	<=12%
Ash	<=5%
Gel strength (Nikan method at 1,5% at 20ºC)	800-1100 g/cm2
pH (1.5%) before autoclaving	6,0-7,5
pH (1.5%) after autoclaving	6,0-7,5
Melting point (1.5%)	85 - 90 ºC
Turbidity before autoclaving (1,5%)	<=8NTU
Particle size	>95 % 60 mesh
Gelling point (1.5%)	34 - 38 ºC
Colorimetry before autoclaving (450 mm)	<=0,25
Colorimetry after autoclaving (450 mm)	<=0,30
Turbidity after autoclaving (1,5 %)	<=8NTU

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Industrial Agar

Cat. 1804

Gelling agent for culture media.

Practical information

Industry: Ingredients for culture media

Principles and uses

Agar is a natural hydrocolloid extracted from several species of red algae, mainly the Gelidium, Gracilaria and Pterocladia types. The marked application increase in the use of agar within the food industry (for example, tin can produce, sweets, pastries, ice creams, etc) is widely spread because of its properties as a dispersing, stabilizing, thickening and gelling agent. It is widely used as a replacement of pectin and being vegetable gelatin of marine origin, it is the perfect substitute for animal gelatin, having ten times more jellification power. Other applications can be in the use of techniques for the micropropagation of plants.

Physical-chemical characteristics

Description	Specification
Ash	<=6,5%
Loss on drying	<=20%
Gel strength (Nikan method at 1,5% at 20ºC)	700-1000 g/cm2
Melting point (1.5%)	85-90 ºC
Gelling point (1.5%)	34-38 ºC
Color	White to light brown
Appearance	Powder
Arsenic	<=3 ppm
Lead	<=5 ppm
Mercury	<=1 ppm
Cadmium	<=1 ppm
Particle size (A.S.T.M) over sieve 60	>95% pass
pH in gel (1,5%)	6,0-7,5
Turbidity at 1,5% (NTU)	<=35
Insoluble matter	<=1,0%
Starch/Gelatin	Absence
Acid-insoluble ash	<=0,5%
Water absorption	<=75 ml
Colorimetry (450 nm)	<=0,3

Microbiological test

Description	Specification
E. coli	Absent
Salmonella	Absent
Total plate count	<5.000 CFU/g
Yeast and moulds	<300 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Pharmaceutical Agar

Cat. 1816

Gelling agent for culture media.

Practical information

Industry: Ingredients for culture media

Principles and uses

Agar is a natural hydrocolloid extracted from several species of red algae, mainly the Gelidium, Gracilaria and Pterocladia types. This is a pharmaceutical quality agar that follows the specifications of the European Pharmacopoeia and American Pharmacopoeia (USP). It is specifically designed for all kind of applications in the pharmaceutical industry for medicinal and cosmetic preparations such as suspensions, reconstituting suspensions, emulsions, sprays, tablets, capsules and creams.

Histology: when disolved in water, Agar appears granular and somewhat filamentous. A few fragments of the spicules of sponges and a few frustules of diatoms may be present.

Physical-chemical characteristics

Description	Specification
Loss on drying	<=20%
Ash	<=5%
Gel strength (Nikan method at 1,5% at 20ºC)	750 - 1000 g/cm2
Melting point (1.5%)	85±5 ºC
Particle size	>95 % 60 mesh
Gelling point (1.5%)	35±3 ºC
Color	White to light cream
Arsenic	<3 ppm
Lead	<5 ppm
Mercury	<1 ppm
Cadmium	<1 ppm
pH (1,5% solution)	6,5-7,5
Turbidity at 1,5% (NTU)	<15 NTU
Insoluble matter	<1%
Starch/Gelatin	Absence
Acid-insoluble ash	<0,5%
Water absorption	<75
EP Identification test ABCD	Passes
USP Identificación test AB	Passes
Colorimetry at 1,5% (420 nm)	<0,250
Swelling index	>10

Microbiological test

Description	Specification
E. coli	Negative
Salmonella	Negative
Standard plate count	<1.000 CFU/g
Yeast and molds	<100 CFU/g

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Plant Propagation Agar

Cat. 1812

Gelling agent for culture media.

Practical information

Industry: Ingredients for culture media

Principles and uses

Agar is a natural hydrocolloid extracted from several species of red algae, mainly the Gelidium, Gracilaria and Pterocladia types. This agar is impurity - free and recommended for the commercial micropropagation of ornamental, succulent and woody plant species as well as in vitro genetic engineering in the plant research field.

This agar has a very high gel strength, = 1.000 g/cm2 which allows usage at very low concentrations, in typical applications, ranging from 0,5 to 0,6% or higher concentrations when used with other hydrocolloids. The product is clear and exhibits excellent transparency aiding in identifying visual contamination by bacteria or molds that could interfere in the development of plant cultures.

Physical-chemical characteristics

Description	Specification
Loss on drying	<=16%
Ash	<=6,5%
Gel strength (Nikan method at 1,5% at 20ºC)	>900 g/cm2
Melting point (1.5%)	85 - 90 ºC
Particle size	>95 % 60 mesh
Gelling point (1.5%)	34 - 38 ºC
Color	White to clear brown
pH (1,5% solution)	6,0-7,5
Turbidity at 1,5% (NTU)	<15
Colorimetry (450 nm)	<0,250

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

Purified Agar

Cat. 1806

Gelling agent for culture media.

Practical information

Industry: Ingredients for culture media

Principles and uses

Agar is a natural hydrocolloid extracted from several species of red algae, mainly the Gelidium, Gracilaria and Pterocladia types. This agar is highly purified with a very low ash content for use in microbiology and biochemistry. It is subjected to rigid tests which guarantee its excellent performance in biochemical, bacteriological and mycological applications. It can be used in special studies such as yeast assimilation and vitamin assays.

Physical-chemical characteristics

Description	Specification
Ash	<1,6%
Gelling temperature 1,5 % (ºC)	34-38 ºC
Melting temperature 1,5% (ºC)	85-90 ºC
Loss on drying	<12%
Gel strength (Nikan method at 1,5% at 20ºC)	700-1200 g/cm2
Particle size	>95 % 60 mesh
Color	White
Appearance	Powder
pH (1,5% solution)	5,0-7,0
Turbidity at 1,5% (NTU)	<10 NTU
Colorimetry (450 nm)	<0.100
Resistivity (1%)	>20000 ohmios
Electroendosmosis (pH 8,4-Wieme method)	<0,450

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC

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