

BACTERIOLOGICAL AGAR AGAR

BacterAgar™ BG Agar Agar series



Bacteriological agar agar has higher gel strength and is used in concentrations from 1.5% to 2.0%.

Each batch produced by us is thoroughly tested for biological performance against 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.

Product Name	BacterAgar™ Premium	BacterAgar™ Standard	BacterAgar™ Basic	BacterAgar™ General	BacterAgar™ High Clarity
Product Code	BG-01	BG-02	BG-03	BG-04	BG-05
Description	Highest quality Bacteriological Grade Agar Agar for microbiology	High quality Bacteriological grade agar	Good quality Bacteriological grade agar	Suits for the both plant tissue culture and microbiology	Specially suits for the ready- to- use agar plates preparation.
Characteristic	Premium quality with low setting temperature and high gel strength	Relatively lower setting temperature and good 45°C water bath performance	Relatively higher setting temperature and good 45°C water bath performance	Competitive price for the general plant tissue culture and microbiology	High clarity with relatively faster gelling time, suits for ready-to-use plates
Appearance	Light yellow color, homogenous free flowing powder	Light yellow, homogenous free flowing powder	Yellow to light tan homogenous free flowing powder	Yellow to light tan homogenous free flowing powder	Light yellow color homogenous free flowing powder
Gel Strength (g/cm ² ,1.5% sol)	950-1050	850-950	750-850	950-1100	950-1050
Loss on drying	≤ 10%	≤ 12%	≤ 15%	≤ 15%	≤ 10%
Ash	≤ 3.0%	≤ 3.0%	≤ 5.0%	≤ 5.0%	≤ 5.0%
pH	6.5-7.5	6.5-7.5	6.5-8.0	6.5-8.0	6.5-8.0
Phosphate Precipitation	No	No	No	No	No
Alkali Precipitation	No	No	No	No	No
Gelling Point	32-37°C	35-38°C	37-40°C	38-40°C	38-41°C
Melting Point	80-87°C	85-90°C	85-90°C	85-90°C	85-90°C
Turbidity	≤7 NTU	≤10NTU	≤15 NTU	≤12 NTU	≤10 NTU
Recommended Using dosage	15 –20 g/L	15 –20 g/L	15 –20 g/L	5 – 8 g/L or 15 –20 g/L	15 –20 g/L
Pack sizes	20kg, 25Kg	20kg, 25Kg	20kg, 25Kg	20kg, 25Kg	20kg, 25Kg



BacterAgar™ BG Agar Agar

Gelling agents for bacteriological applications

CAS NUMBER: 9002-18-0

SYNONYMS: Agar-agar; Gum agar; Bacto-agar; Bengal gelatin; Bengal ising glass; Ceylon; Ceylon ising glass; Chinese ising glass; Digenea simplex mucilage; GAM medium; Gelose; Japan agar; Japan ising glass; Kantenmatsu; Laya caran; NCI-C50475; Oxoid III; Oxoid L 11; S 100

PRODUCT PROPERTIES AND DESCRIPTION:

Appearance: Light yellow powder with a tan cast

Molecular weight: N/A

BacterAgar™ Bacteriological agar agar series are the gelling agents used in the preparation of culture media and other bacteriological applications.

Its main advantage is the absence of inhibitors which could hinder optimal development of microorganisms. In addition, bacteriological agar also possesses other attribute such as transparency, high hysteresis and very reliable reproducibility.



Key Features & Benefits

Guaranteed Purity & Performance: Each batch is biologically tested against known bacterial cultures to ensure the absence of inhibitors and guarantee optimal, reproducible microbial growth.

Superior Clarity & Transparency: Our agar agar exhibit low turbidity (as low as ≤ 7 NTU), providing excellent clarity for easy observation and enumeration of colonies without visual interference.



Precise Gelling Properties: Engineered with specific gelling and melting points, our agar agar offer excellent hysteresis (the gap between melting and gelling temperatures), ensuring media remains solid at standard incubation temperatures and melts completely for pouring.

Exceptional Gel Strength: Formulated to provide high gel strength even at standard concentrations (1.5%), resulting in stable, firm media surfaces that resist breaking and are easy to handle.

No Precipitate Formation: All our bacteriological grades are tested and confirmed to have no phosphate or alkali precipitation, preventing cloudiness and ensuring a smooth, clear gel matrix.

Typical Properties & Specification Data (BacterAgar™ BG-01)

Items	Specification	Test Method
Appearance	Light yellow powder	Visual
Particle size	≥ 95% pass 60 mesh	Screen
Gel Strength (1.5%)	≥ 950 g/cm ²	Standard Agar Test
Turbidity (1.5% Solution)	≤ 7 NTU	Turbidimeter
pH (1.5% solution)	6.5 - 7.5	In H ₂ O
Ash Content	≤ 3.0%	Muffle Furnace
Starch and Gelatin test	Negative	-
Loss on Drying	≤ 10%	-
Insoluble matter	≤ 0.5%	-
Gelling Temperature (1.5%)	32 - 37 °C	-
Melting Temperature (1.5%)	80 - 87 °C	-
Phosphate Precipitation	No precipitation	-
Alkaline Precipitation (pH8.4±0.1)	No precipitation	-
Heavy Metals	≤ 10ppm	-
Lead	≤ 2ppm	AAS

Please contact CAG for formal Product Data Sheet (PDS)

Preparation:

Add the weighed quantity of BacterAgar™ BG to your room temperature media solution while stirring vigorously. Heat with constant agitation until the solution becomes completely clear. Autoclave at 121°C for 15-20 minutes. Dispense into culture vessels under sterile conditions.

Storage

Store sealed medium containing Agar Agar at 2 - 30 °C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

Expiration

Refer to expiration date stamped on container. Agar Agar should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to Agar Agar in its intact container when stored as directed.

Packing

20 kg or 25kg per drum / carton