

Agar Agar

(Bacteriological Grade)

Manufacturing Industry.

Bacteriological Grade for Culture Media, Pharmaceutical Industry, Dairy Products, Air Freshener Gel, Dentistry and Food Grade

Introduction

Agar-agar belongs to the family of galactan polysaccharides. Galactan polysaccharides are complex linear sugar polymers containing 22 galactose molecules. It is present in the cell walls of Rhodophyceae class of red algae. Agar is produced in several species of marine algae found across the globe. Most commercial agar-agar is extracted from Gelidium and Gracilaria species. Other commonly used species include Pterocladia and Gelidiella.



Agar Agar

Bacteriological grade agar is used in clinical applications, auxotrophic studies, bacterial and yeast formation studies, bacterial molecular genetics applications as well as in mammalian and plant tissue cultures. Agars are used in final concentrations of 1-2% for solidifying culture media. Smaller quantities of agar (0.05-0.5%) are used in culture media for motility studies (0.5% w/v) and growth of anaerobes (0.1 %) and microaerophiles.

Agar-agar is a unique natural hydrocolloid obtained from the red seaweeds of Gelidium and Gracilaria. These gels are considered more compact and resistant as compared to other gelatin or carrageenan gels. The product's gel strength is also considerably higher as compared to gelatin. The product also eliminates the need for the addition of any foreign substance such as acids, sugar, proteins and cations for optimizing food texture or flavor.

Uses:

Agar or agar-agar is a jelly-like substance, obtained from algae. Agar is derived from the polysaccharide agarose, which forms the supporting structure in the cell walls of certain species of algae, and which is released on boiling. These algae are known as agarophytes and belong to the Rhodophyta (red algae) phylum. Agar is actually the resulting mixture of two components: the linear polysaccharide agarose and a heterogeneous mixture of smaller molecules called agarpectin.

- Agar Agar is widely used as a solidifying agent for preparation of culture media.**
- An Agar plate or Petri dish is used to provide a growth medium using a mix of agar and other nutrients in which microorganisms, including bacteria and fungi, can be cultured and observed under the microscope.**

- **Since it is indigestible for many organisms, that microbial growth does not affect the gel used and it remains stable. Agar is often dispensed using a sterile media dispenser.**
- **In the pharmaceutical industry agar has been used for many years as a smooth laxative. In orchid nurseries, agar gels containing appropriate nutrients are used as the growth substrate to obtain clones or copies of particular plants. Meristems – the part of the plant with actively dividing cells, usually the stem tips – are grown in the gel until there has been sufficient root development and growth for them to be transplanted. An advantage of this system is that the plants can be cultured in a sterile environment.**

- **Agar-agar gum is commonly used as an ingredient in dairy products such as yogurt, cheese, creams, custard, spreads, curd, mousses, puddings, infant formula, and smoothies. It can jellify, thicken, and stabilize food items at a lesser concentration level. These properties of solidifying and stabilizing dairy products make agar-agar gum a vital ingredient in the dairy industry. Moreover, this gum has non-nutritive characteristics that makes it advantageous due to the increased demand for no-sugar, no-fat, and no-carbohydrate products. Additionally, several milk-based local desserts in APAC also use agar-agar gum to jellify and it also can be used as a substitute for gelatin.**

- **Agar Agar as a culture media is widely used for practically all pathogenic and nonpathogenic bacteria and fungi because it is not easy to metabolise and has a good gel firmness, elasticity, clarity and stability. Because of its high gellifying power and its vegetable origin, Agar Agar constitutes a natural non-toxic matrix for the formation of culture media in Microbiology.**



Applications:

Culture Media: Because of its high gellifying power and its vegetable origin, Agar Agar constitutes a natural non-toxic matrix for the formation of culture media. It is widely used for practically all pathogenic and nonpathogenic bacteria and fungi because it is not easy to metabolise and has a good gel firmness, elasticity, clarity and stability.

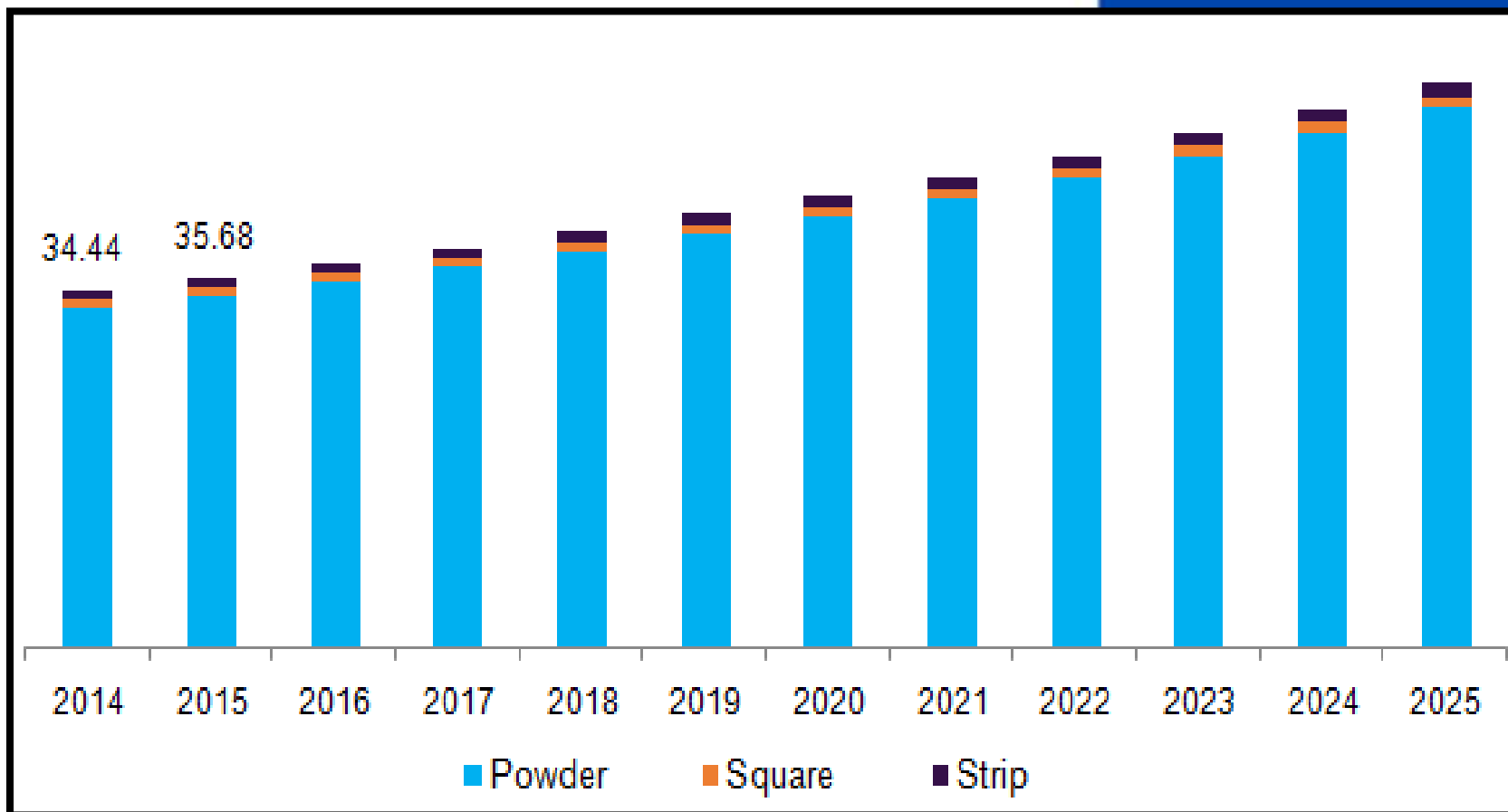
Plant Tissue Culture: The major application of Agar Agar is in the field of plant tissue culture. Tissue culture is emerging as the standard method for the propagation of orchids and other ornamental plants, vegetables, fruits and other agricultural products and this has increased the demand for Agar Agar.

Dentistry: In prosthetic dentistry, Agar Agar is used in the preparation of dental casts. It is an elastic impression material and it can be reused for making multiple impressions.

Air Freshener Gel: Agar Agar is being used in gel form in Air Fresheners. It will have a gel texture with the essential oils infused within it.

The global agar agar gum market size was estimated at USD 214.98 million in 2015 and is anticipated to grow at a CAGR of 4.9% from 2016 to 2025. Growing demand for dairy products in line with the westernization of diets has aided industry growth in recent years. The product is widely used in dairy products such as milk, cheese, yogurts, creams, custard, curd, spreads, mousses, puddings, infant-formula, confectioneries, beverages, and smoothies.

U.S. agar-agar gum market by product, 2014 - 2025 (USD Million)

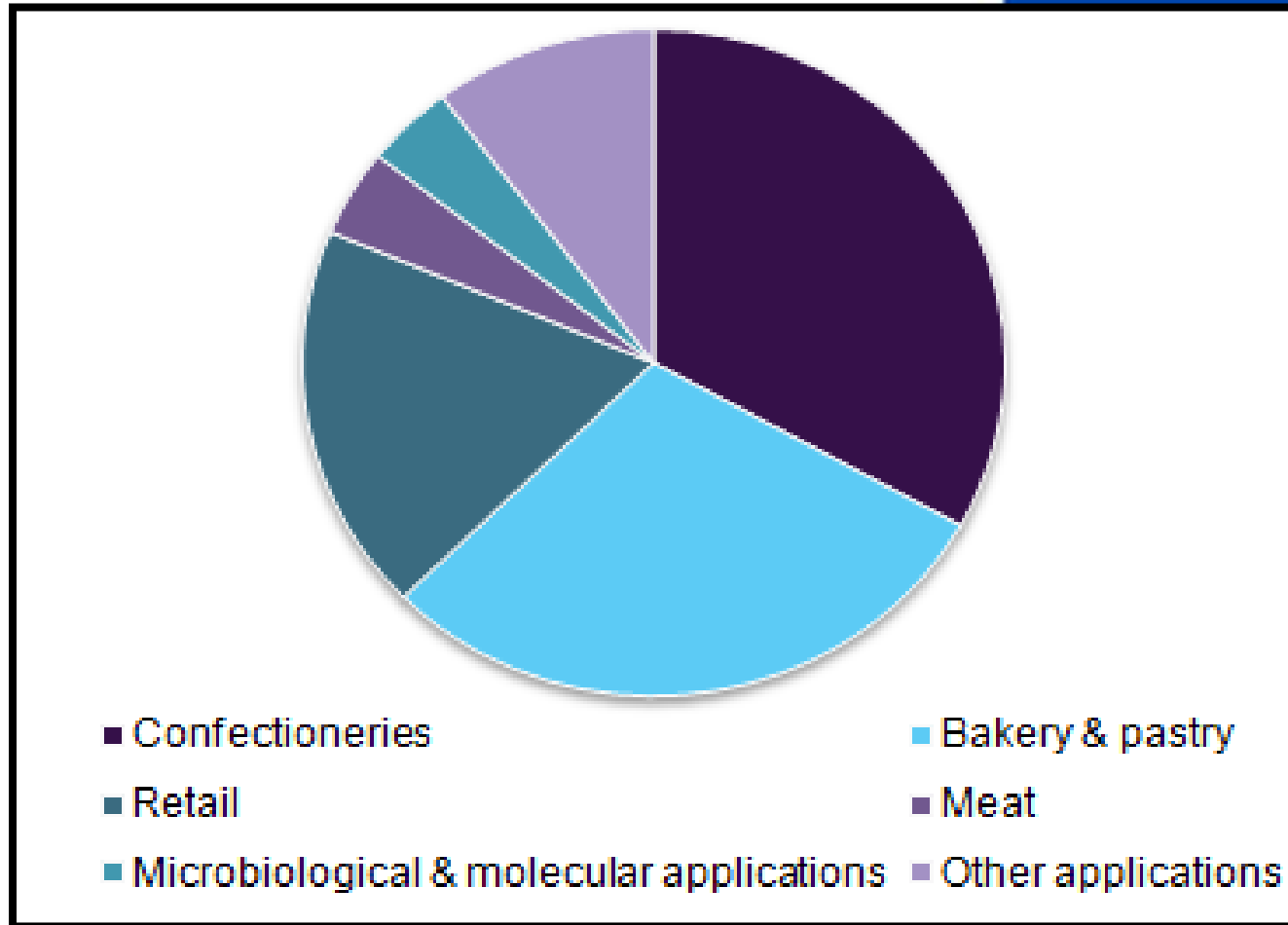


Gelling and thickening properties of agar agar are anticipated to drive the agar agar gum market during the forecast period. The F&B industry is likely to witness an increase in demand for agar agar gum, in the next few years, as a stabilizer and solidifying agent. Agar agar gum is preferred over other polysaccharides due to the large hysteresis between the melting and setting temperatures of agar agar gum, an unusual property of a polysaccharide. Agar-agar is primarily utilized in the F&B industry, due to high compatibility of agar agar gum in sugary environment, in order to provide stable structure to concentrated sugary system. Thus, the demand for agar agar gum is expected to rise significantly from sugary food products even after the forecast period. However, rising health concerns (diabetes, high blood pressure, obesity, etc.) due to these processed sugary products are likely to hamper the agar agar gum market in the near future.

One driver in the market is growing demand from baking and confectionery industry. Bakery and confectionery products include products that are jellified for a prolonged shelf life and appealing look. The latter is vital because visual appeal plays an important role in the purchase decision of consumers, especially in the bakery industry. Agar-agar gum prevents the products from sticking and makes them more palatable. The availability of a variety of agar-agar gum in the market is driving its growth.

The development of new products and applications is one of the latest trends that will contribute to the growth of the agar-agar gum market in the forthcoming years. Agar-agar gum manufacturers are investing heavily in R&D activities for the development of new products. They are finding new ways to distinguish their brands by producing new products to increase their revenues.

Global agar-agar gum market volume share by application, 2015 (%)



The global agar market is segmented on the basis of application which includes: food & beverages, bacteriological applications, technical applications and others (agriculture). In 2015, of these segments, food & beverages segment dominated the market in terms of value and volume, and is expected to remain dominant over the forecast period. Food & beverages segment is further sub segmented as bakery, confectionery, dairy, canned meat/poultry products, beverages, sauces, creams & dressings, dietetic products and others.



In addition bacteriological is further sub-segmented as culture media and microbiology. Technical application is sub-segmented as cosmetology and medical applications. The technical application segment is expected to expand at the highest CAGR in terms of value during the forecast period.



Few Indian major players are as under:

- **Marine Hydrocolloids**
- **Leeman Laboratories**
- **Osler Scientific Enterprises**
- **Lakshmi Engineering Products**
- **Saffron Life Science**

Machinery Photographs



BOILER



EXTRACTOR



DRUM DRIER



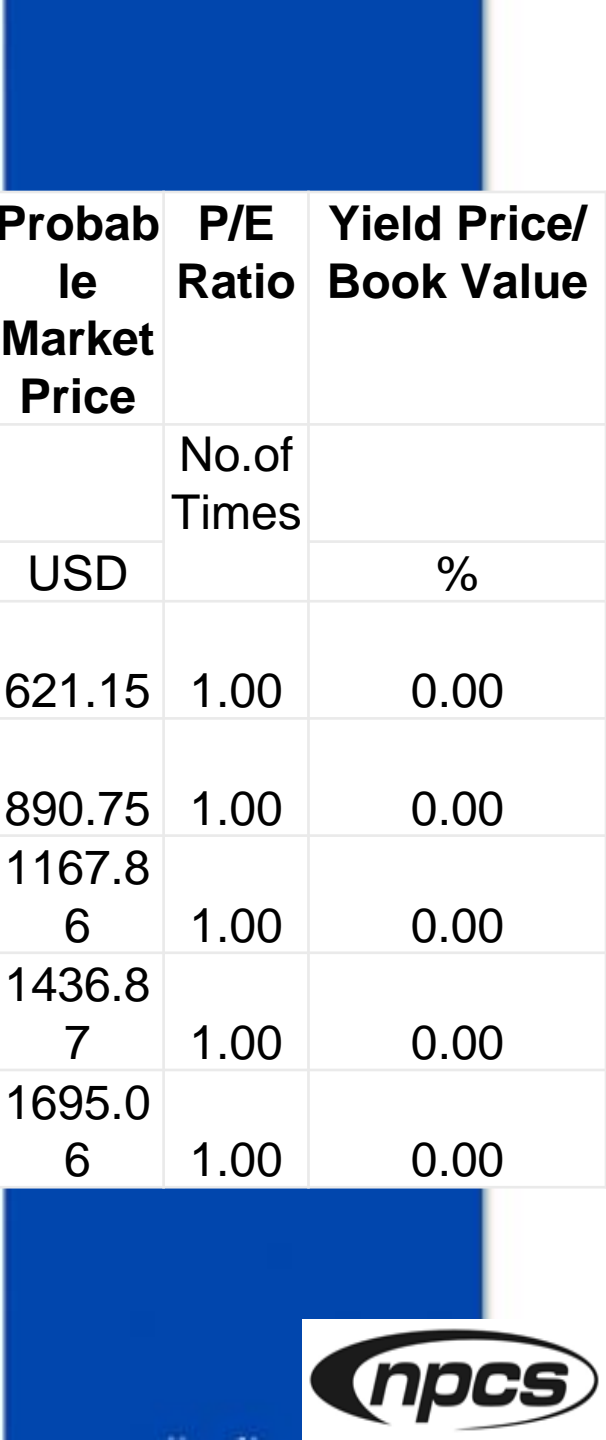
WEIGHING MACHINE

Project at a Glance

PROJECT AT A GLANCE				(USD in Thousands)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	137.50	137.50	Capital	0.00	274.62	274.62
Buildings	0.00	252.50	252.50	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	244.00	244.00	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	30.00	30.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	115.50	115.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	823.87	823.87
Preliminary& Pre-operative Exp	0.00	10.00	10.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	24.00	24.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	234.99	234.99				
TOTAL	0.00	1098.49	1098.49	TOTAL	0.00	1098.49	1098.49

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	USD	USD	USD	USD	USD	%	USD	%	USD		%
1-2	621.15	937.02	631.15	2400.00	0.00	100.00	621.15	0.00	621.15	1.00	0.00
2-3	890.75	1168.44	1521.90	1800.00	0.00	100.00	890.75	0.00	890.75	1.00	0.00
3-4	1167.86	1412.52	2689.77	1200.00	0.00	100.00	1167.86	0.00	1167.86	1.00	0.00
4-5	1436.87	1652.91	4126.63	600.00	0.00	100.00	1436.87	0.00	1436.87	1.00	0.00
5-6	1695.06	1886.29	5821.70	0.00	0.00	100.00	1695.06	0.00	1695.06	1.00	0.00



Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.36	1.36		1.48	1.48	5.46		4.36%	2.00%	1.35%	1060.69	8.39%	4.46	1.08
2-3	1.66	1.50		0.72	0.72	3.68		4.68%	2.56%	1.66%	1235.18	8.38%	4.62	1.14
3-4	2.03	1.67	2.03	0.33	0.33	2.64		4.90%	2.98%	1.90%	1411.58	8.38%	4.62	1.22
4-5	2.47	1.84		0.12	0.12	1.99		5.04%	3.28%	2.08%	1587.98	8.38%	4.55	1.30
5-6	2.99	2.03		0.00	0.00	1.56		5.14%	3.49%	2.21%	1764.38	8.38%	4.42	1.46

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	55.30%
Total BEP (% of Installed Capacity)	58.27%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	29.10%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	40.483

Major Queries/Questions Answered in the Report?

- 1. What is Agar Agar (Bacteriological Grade) Manufacturing industry ?**
- 2. How has the Agar Agar (Bacteriological Grade) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Agar Agar (Bacteriological Grade) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Agar Agar (Bacteriological Grade) Manufacturing plant ?**

- 5. What is the structure of the Agar Agar (Bacteriological Grade) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Agar Agar (Bacteriological Grade) Manufacturing Business?**
- 7. What are the operating costs for setting up Agar Agar (Bacteriological Grade) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Agar Agar (Bacteriological Grade) Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Agar Agar (Bacteriological Grade) Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Agar Agar (Bacteriological Grade) Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Agar Agar (Bacteriological Grade) Manufacturing Business?**
- 12. What is the Manufacturing Process of Agar Agar (Bacteriological Grade)?**

- 13. What is the total size of land required for setting up Agar Agar (Bacteriological Grade) Manufacturing plant ?**
- 14. What will be the income and expenditures for Agar Agar (Bacteriological Grade) Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Agar Agar (Bacteriological Grade) Manufacturing plant ?**
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Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Agar Agar (Bacteriological Grade).” provides an insight into Agar Agar (Bacteriological Grade) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Agar Agar (Bacteriological Grade)project. The report assesses the market sizing and growth of the Indian Agar Agar (Bacteriological Grade) Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Agar Agar (Bacteriological Grade) sector in India along with its business prospects. Through this report we have identified Agar Agar (Bacteriological Grade) project as a lucrative investment avenue.

Tags

Bacteriological Grade Agar, Agar Bacteriological Grade, Agar Agar, Bacteriological Grade, Agar Agar Bacteriological Grade, Agar Agar Manufacture, Industrial Agar Agar, Manufacturing Food Grade Agar Agar, Bacteriological Agar, Industrial Production of Agar Agar, Bacteriological Grade Agar Agar Manufacturing Plant, Preparation of Agar-Agar, Agar Bacteriology Grade, Process for Producing Agar-Agar, Agar Agar Food Grade, Agar Powder (Bacteriological Grade), Agar Agar Production, Applications, Production of Agar, Process for Production of Agar, Industrial Production of Agar-Agar PPT, Manufacture and Composition of Commercial Agar Agar, Agar Industry, Agar Factory, Agar-Agar Manufacturing Factory, Project Report on Agar-Agar Manufacturing Industry, Detailed Project Report on Agar-Agar Manufacturing, Project Report on Bacteriological Grade Agar Agar Manufacturing Plant, Pre-Investment Feasibility Study on Agar-Agar Manufacturing, Techno-Economic feasibility study on Bacteriological Grade Agar Agar Manufacturing Plant, Feasibility report on Bacteriological Grade Agar Agar Manufacturing Plant, Free Project Profile on Bacteriological Grade Agar Agar Manufacturing Plant, Project profile on Bacteriological Grade Production, Download free project profile on Agar-Agar Manufacturing

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



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- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

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