

Y-1690

7-Aminocephalosporanic Acid (7-ACA)

Investment Opportunities –
Active Pharma Ingredient
(API)

Best Industry for Starting a
Business



Introduction

7-ACA (7-aminocephalosporanic acid) is that the core chemical structure for the synthesis of cephalosporin antibiotics and intermediates. It are often obtained by chemo enzymatic hydrolysis of cephalosporin C.

7-aminocephalosporanic acid includes a dihydrogen-thiazine ring (A) and a β -lactam ring (B), it's a resistant effect on the category of staphylococcus aureus penicillin's. Modifying this nucleus with different side chains can form the whole series of cephalosporin antibiotics. Modifying β -lactam bit 7 (R1), can make antimicrobial efficacy and stability within the β -lactamase change. At 3 bit on-dihydrogen-thiazine ring substitution (R2), the influence of effect on drug metabolism and pharmacokinetic properties is more staggering than that of antibacterial effect.

Related Project: - [7-aminocephalosporanic Acid \(7-aca\)](#)

7-ACA represents the key intermediate for the synthesis of the API which is obtained after (bio-) chemical derivatization at position 3' and 7'. Cephalosporin C can be converted to 7-ACA by either a chemical or an enzymatic removal of the 7-amino adipoyl side chain. The chemical transformation of CPC into 7-ACA is shown in fig.1. CPC is treated with phosphorus pent chloride in the presence of base after protection of the amino and carboxyl functions.

Related Projects:- [Active Pharmaceutical Ingredient \(API\) Products, Bulk API Manufacturing](#)



Uses and Applications

Uses

7-Aminocephalosporanic Acid [chemically, 3-(Acetyloxy-methyl)-7-amino- 8-oxo-5-thia-1- azabicyclo (4.2.0) oct-2-ene-2-carboxylic acid] is the active nucleus for the synthesis of cephalosporin and intermediates.

7-ACA affect the antibacterial activity and can lead to the alteration of pharmacokinetic properties and receptor binding affinity, thus creating new class of cephalosporin antibiotics with important clinical uses.

Related Books:- [Pharmaceutical, Drugs, Proteins Technology Handbooks](#)

Applications

Potent inhibitor of bacterial (S. aureus) β -lactamase.

Antibacterial; Bacterial Trans peptidase inhibitor

Antibiotics use for the treatment of a bacterial infection.

Used in infections of the respiratory and urinary tracts, skin, and bones.

7-Aminocephalosporanic Acid (7-ACA) Market, By Type

Cefazolin Sodium

Cefotaxime Sodium

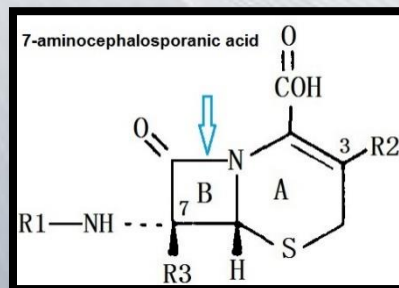
Ceftriaxone Sodium

Cefoperazone Sodium

Ceftazime Sodium

Cefuroxime Sodium

Related Videos: - [Pharmaceutical, Drugs, Fine Chemicals, Bulk Drug Intermediates, Pharmaceutical Drugs, Pharma Drug Ingredients Intermediates, Pharmaceutical Bulk Drugs](#)



Market Outlook

The Global 7-Aminocephalosporanic Acid (7-ACA) Market is growing at a faster pace with substantial growth rates over the last few years and is estimated that the market will grow significantly in the forecasted period i.e. 2019 to 2026. These factors; the market dynamics, involves the drivers, restraints, opportunities and challenges through which the impact of these factors in the market are outlined. The drivers and restraints are intrinsic factors whereas opportunities and challenges are extrinsic factors of the market. The Global 7-Aminocephalosporanic Acid (7-ACA) Market study provides an outlook on the development of market.

Related Projects:- [Pharmaceutical, Drugs, Fine Chemicals, Bulk Drug Intermediates, Pharmaceutical Drugs, Pharma Drug Ingredients Intermediates](#)

Global 7-Aminocephalosporanic Acid (7-ACA) Market: Scope

The impact of varied social, political and economic factors alongside the present market dynamics affecting the worldwide 7-Aminocephalosporanic Acid (7-ACA) Market growth. It explains the varied participants, such as system integrators, intermediaries and end-users within the ecosystem of the market.

The growing importance of generics, and therefore the increasing uptake of biopharmaceuticals. On the opposite hand, unfavorable drug control policies across various countries and high manufacturing costs are expected to restrain the expansion of this market.

Projects:- [Business Ideas after the Covid Breakdown](#)



The developing status of generics within the global market is projected to reinforce the active pharmaceutical ingredients market growth. Also, the diminishing number of novel drugs within the pharmaceutical industry is estimated to feature to the product development's active pharmaceutical ingredients within the upcoming. The API market is segmented into molecular entity, manufacturer type, end use, and region. Further, it's segmented into two molecular entity groups: natural and artificial API. Synthetic APIs are further segmented into chemical synthesis, bio catalytic and cell culture. Under the category of molecular entity, APIs are segmented into small molecules and huge molecules. By sourcing type, the market is segmented into the captive market, merchant market and contract manufacturing organization (CMO). In terms of end use, the market is segmented into clinical trial use and commercial use.

Books:- [BOOKS & DATABASES](#)

Role Of Government Towards API

The coronavirus outbreak disrupting supply of active pharmaceutical ingredients (APIs) and medical devices from China to India, the government has come out with four schemes worth Rs 13,760 crore to encourage manufacturing of bulk drugs and medical devices in the country and their exports.

On March 21, the Union Cabinet under the chairmanship of Prime Minister Narendra Modi had approved an expenditure of Rs. 9,940 crore and Rs. 3,820 crore for APIs and medical devices, respectively.

Market Research:- [Market Research Report](#)



The Cabinet also approved a scheme on promotion of bulk drug parks for financing common infrastructure facilities in three bulk drug parks with financial implication of Rs. 3,000 crore for next five years. The government will give grants-in-aid to states with a maximum limit of Rs. 1,000 crore per bulk Drug Park. Parks will have common facilities such as solvent recovery plant, distillation plant, power and steam units, common effluent treatment plant etc.

The government further approved production linked incentive (PLI) scheme for promotion of domestic manufacturing of critical KSMs/drug intermediates and APIs in the country with financial implications of Rs. 6,940 crore for next eight years.

Projects:- [Project Reports & Profiles](#)



Financial incentive will be given to eligible manufacturers of identified 53 critical bulk drugs on their incremental sales over the base year (2019-20) for a period of 6 years.

Out of 53 identified bulk drugs, 26 are fermentation based bulk drugs and 27 are chemical synthesis based bulk drugs.

Rate of incentive will be 20 per cent (of incremental sales value) for fermentation based bulk drugs and 10 per cent for chemical synthesis based bulk drugs.

The PLI scheme will lead to expected incremental sales of Rs. 46,400 crore and significant additional employment generation over eight years.

The drug industry has welcomed the incentives offered by the government to promote API units in India.

Related Project:- [7-aminocephalosporanic Acid \(7-aca\)](#)

Besides APIs, the Cabinet also approved the scheme for promotion of medical device parks in the country in partnership with the states. A maximum grant-in-aid of Rs. 100 crore per park will be provided to the states. It will have financial implications of Rs. 400 crore.

The PLI scheme for promoting domestic manufacturing of medical devices will have financial implications of Rs. 3,420 crore for next five years.

Medical device is a growing sector and its potential for growth is the highest among all sectors in the healthcare market. It is valued at Rs. 50,026 crore for 2018-19 and is expected to reach to Rs. 86,840 crore by 2021-22. India depends on imports up to an extent of 85 per cent of total domestic demand of medical devices.

Projects:- [Project Reports & Profiles](#)





7ACA-Fermentation-Ultrafiltration



7ACA-Fermentation-Fermentor



7-ACA-Extraction



PURIFICATION SYSTEM

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site							
Development Exp.	0.00	520.00	520.00	Capital	0.00	854.59	854.59
Buildings	0.00	393.00	393.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	1791.00	1791.00	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	18.00	18.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	109.50	109.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	50.00	50.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			2563.7
Deposits	0.00	0.00	0.00	Borrowings	0.00	2563.76	6
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	169.00	169.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	362.85	362.85				
TOTAL	0.00	3418.35	3418.35	TOTAL	0.00	3418.35	3418.35

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	%
1-2	6.36	10.42	16.36	24.00	0.00	100.00	6.36	0.00	6.36	1.00	0.00
2-3	8.76	12.25	25.12	18.00	0.00	100.00	8.76	0.00	8.76	1.00	0.00
3-4	11.24	14.24	36.36	12.00	0.00	100.00	11.24	0.00	11.24	1.00	0.00
4-5	13.70	16.29	50.06	6.00	0.00	100.00	13.70	0.00	13.70	1.00	0.00
5-6	16.12	18.34	66.18	0.00	0.00	100.00	16.12	0.00	16.12	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	1.50	1.50		1.47	1.47	3.32	6.16%	3.89%	2.83%	2397.06	12.47%	3.21	1.07	
2-3	1.76	1.63		0.72	0.72	2.11	6.89%	4.98%	3.34%	2796.33	12.47%	3.38	1.22	
3-4	2.09	1.77	2.10	0.33	0.33	1.43	7.39%	5.79%	3.75%	3195.80	12.47%	3.41	1.37	
4-5	2.47	1.93		0.12	0.12	1.02	7.73%	6.37%	4.06%	3595.27	12.47%	3.35	1.54	
5-6	2.94	2.10		0.00	0.00	0.75	7.96%	6.79%	4.30%	3994.74	12.47%	3.24	1.92	

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	40.74%
Total BEP (% of Installed Capacity)	45.51%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.73%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	17.697

Major Queries/Questions Answered in the Report?

- 1. What is 7-Aminocephalosporanic Acid (7-ACA) Manufacturing industry ?**
- 2. How has the 7-Aminocephalosporanic Acid (7-ACA) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of 7-Aminocephalosporanic Acid (7-ACA) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up 7-Aminocephalosporanic Acid (7-ACA) Manufacturing plant ?**

5. What is the structure of the 7-Aminocephalosporanic Acid (7-ACA) Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up 7-Aminocephalosporanic Acid (7-ACA) Manufacturing Business?

7. What are the operating costs for setting up 7-Aminocephalosporanic Acid (7-ACA) Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up 7-Aminocephalosporanic Acid (7-ACA) Manufacturing plant ?

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up 7-Aminocephalosporanic Acid (7-ACA) 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 7-Aminocephalosporanic Acid (7-ACA).” provides an insight into 7-Aminocephalosporanic Acid (7-ACA) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of 7-Aminocephalosporanic Acid (7-ACA) project. The report assesses the market sizing and growth of the Indian 7-Aminocephalosporanic Acid (7-ACA) 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 7-Aminocephalosporanic Acid (7-ACA) sector in India along with its business prospects. Through this report we have identified 7-Aminocephalosporanic Acid (7-ACA) project as a lucrative investment avenue.

Tags

**#7AminocephalosporanicAcid #7ACA #7ACAProduction #7ACAMarket
#Pharmaceutical #pharmaindustry
#activepharmaceuticalingredientimport
#activepharmaceuticalingrediants #activepharmaingredient
#APIMarket #APIManufacturing #pharmaceuticalmanufacturing
#ActivePharmaceuticallIngredientsmarket
#7AminocephalosporanicAcidBusinessPlan #APIbulkdrug
#DetailedProjectReport #businessconsultant #feasibilityReport #NPCS**

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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.

And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
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- **Raw Material & Manpower Availability**
- **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](#)



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- *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

Who do we Serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations

Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling

Sectors We Cover *Conti...*

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct

Sectors We Cover *Cont...*

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing

Sectors We Cover *Cont...*

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries

Sectors We Cover

Cont...

- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.

Sectors We Cover *Cont...*

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.

Sectors We Cover *Cont...*

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals

Sectors We Cover *Cont...*

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable



MARKET RESEARCH REPORTS

Objective

- ⌘ To get a detailed scenario of the industry along with its structure and classification
- ⌘ To provide a comprehensive analysis of the industry by covering aspects like:
 - ⌘ Growth drivers of the industry
 - ⌘ Latest market trends
 - ⌘ Insights on regulatory framework
 - ⌘ SWOT Analysis
 - ⌘ Demand-Supply Situation
 - ⌘ Foreign Trade
 - ⌘ Porters 5 Forces Analysis

Objective

- ∞ To provide forecasts of key parameters which helps to anticipate the industry performance
- ∞ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ∞ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ∞ To evaluate the competitive landscape of the industry by detailing:
 - ∞ Key players with their market shares
 - ∞ Financial comparison of present players

Clientele

- ∞Venturist/Capitalists
- ∞Entrepreneur/Companies
- ∞Industry Researchers
- ∞Investment Funds
- ∞Foreign Investors, NRI's
- ∞Project Consultants/Chartered Accountants
- ∞Banks
- ∞Corporates

[Click here for list](#)

Data Sources



Scope & Coverage



Our Team

- ⌘ Our research team comprises of experts from various financial fields:
- ⌘ MBA's
- ⌘ Industry Researchers
- ⌘ Financial Planners
- ⌘ Research veterans with decades of experience

Structure of the Report

- 1. Overview
- 2. Market Analysis
 - 2.1 Growth Drivers
 - 2.2 Emerging Trends in the Industry
 - 2.3 Regulatory Framework
 - 2.4 SWOT Analysis
 - 2.5 Herfindahl–Hirschman Index (HHI)
- 3. Market Forecasts
- 4. Key Players

Structure of the Report

Cont

- ⌘5. Key Financials and Analysis
 - ⌘5.1 Contact Information
 - ⌘5.2 Key Financials
 - ⌘5.3 Financial comparison
- ⌘6. Industry Size & Outlook

Take a look at ***NIIR PROJECT CONSULTANCY SERVICES*** on
#Street View

<https://goo.gl/VstWkd>

Contact us

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THANK YOU

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