



Steroids



Presentation by
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Basics

Steroids are synthetic drugs that resemble natural hormones made in the body

- **Corticosteroids** are a set of steroid hormones which are either produced in the adrenal cortex or are made synthetically.
- Corticosteroids produced naturally are known as systemic steroids, while those produced chemically are called synthetic steroids.
- **Systemic steroids** are given either orally or by injection. Adrenal cortex, found along the perimeter of the adrenal glands, produce two main corticosteroids, cortisol and aldosterone.
- When the adrenal glands stop producing the required amount of corticosteroids, synthetic steroids are given to the patients

What Are Steroids?

Steroids are hormones of 3 types:

1. **Anabolic Androgenic Steroids** – like testosterone, that builds muscle and masculinize (hair, deep voice, sex).
2. **Glucocorticosteroids** – like cortisone or prednisone, that are anti-inflammatory or immunosuppressants used in swelling, rashes, asthma, or bronchitis.
3. **Minerocorticosteroids** – like vasopressin, that are produced by the adrenal glands for salt and water regulation.

Available Naturally



Olive Oil



Coconut Oil



Sunflower Oil



Steroids

Technology , Companies, Contract Manufacturing
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Contents

Information profile @ a Glance

- Steroids are synthetics drugs that resemble natural hormones made in the body. The type of steroids that are misused are anabolic androgenic steroids (AAS), which copy the effects of the male hormone, testosterone.
- Corticosteroids are a set of steroid hormones which are either produced in the adrenal cortex or are made synthetically.
- Corticosteroids produced naturally are known as systemic steroids, while those produced chemically are called synthetic steroids. Systemic steroids are given either orally or by injection. Adrenal cortex, found along the perimeter of the adrenal glands, produce two main corticosteroids, cortisol and aldosterone. When the adrenal glands stop producing the required amount of corticosteroids, synthetic steroids are given to the patients.
- Betamethasone is a highly potent steroid that prevents the release of substances in the body that cause inflammation. Betamethasone topical (for the skin) is used to treat the inflammation and itching caused by a number of skin conditions such as eczema or psoriasis.
- Dexamethasone is a type of corticosteroid medication. It is used in the treatment of many conditions, including rheumatic problems, a number of skin diseases, severe allergies, asthma, chronic obstructive lung disease, croup, brain swelling, eye pain following eye surgery, and along with antibiotics in tuberculosis.
- Prednisolone is a steroid medication used to treat certain types of allergies, inflammatory conditions, autoimmune disorders, and cancers. Some of these conditions include adrenocortical insufficiency, high blood calcium, rheumatoid arthritis, dermatitis, eye inflammation, asthma, and multiple sclerosis.
- Manufacturing of Steroids with a production capacity 20 TPA needs an investment of about INR 10 Crores.
- The reactors utilized in the process are multipurpose reactors to manufacture the products. The capacity of reactors will be different for different products, area wise for the manufacturing of steroids, however it is based on the quantity of the products (steroids) to be manufactured as per the demand.
- Government of India have introduced an incentive scheme for promotion of domestic manufacturing of APIs to restrict dependency on Overseas suppliers.
- Steroids Manufacturing is highly complex and therefore there is good prospects for those who dare to enter into this field.

Basics

- Anabolic steroids
- Corticosteroids
- Product Profile
- About Steroids
- Anabolic steroids
- Steroids - Types

Companies

- World Leading Steroids Manufacturer
- Manufacturer - Company Report
- Company performance
- Analyst Ratings
- Company Performance
- Company - Performance Rated
- Company Annual report
- Life Sciences company
- Company Prospects
- Company - Annual Report
- Company performance

Technology Information

- Chemistry of Steroids
- Technology Transfer
- Supercritical Fluid Extraction of Steroids
- Large-Scale Transformation of Steroids by Fungal Spores

Consultants

- Market Research reports
- Consultant - Market reports

Patents

- Steroidal Compounds
- Process & Intermediates for 16-substituted Corticoid Synthesis
- Betamethasone Diproponate Cream

Project Information

- Steroids Manufacturing Project Details
- Manufacturing plant for Vitamins, Steroids & Hormones
- Construction and Renovation of Sterile Processing Facilities
- Plant & Machinery

Contract Manufacturing

- About Contract Manufacturing
- Specialized pharmaceutical service provider
- Leading supplier of steroid products and a pharmaceutical contract manufacturer
- Custom Synthesis offer
- Contract Manufacturer
- Product development, clinical trials services, contract manufacturing and cold chain and logistics services

Applications & Markets

- Steroids - application notes
- On the use of corticosteroids for 2019-nCoV pneumonia
- The Science Of Anabolic Steroid Abuse
- Patient Care
- Steroids - Fact sheet

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Steroid Project
Database offer
<http://primaryinfo.com/technology/steroids.htm>

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Project Information

Manufacturing of Steroids with a production capacity 20 TPA

Total cost for the proposed project is estimated to be Rs. 10 crores

Land & Building: 3000square meters

Power: Total power requirement will be 150 KVA

Plant , Machinery

- The reactors utilized in the process are multipurpose reactors to manufacture the products.
- The capacity of reactors will be different for different products, area wise for the manufacturing of steroids, however it is based on the quantity of the products (steroids) to be manufactured as per the demand.
- The manufacturing of the products will be batch process and each batch depending on the product may require up to 20 hours for loading , unloading , reaction etc.



Pharmaceutical Reactors

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(12) **United States Patent**
Del Soldato

(10) **Patent No.:** **US 7,186,708 B2**
(45) **Date of Patent:** **Mar. 6, 2007**

(54) **STEROIDAL COMPOUNDS** 5,837,698 A 11/1998 Tjoeng et al.

(75) Inventor: **Piero Del Soldato**, Milan (IT) FOREIGN PATENT DOCUMENTS

(73) Assignee: **Nicox S.A.**, Sophia Antipolis (FR)

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JP	5-39261	2/1993
WO	WO 98/15568	4/1998

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 65 days.

(21) Appl. No.: **11/028,198**

(22) Filed: **Jan. 4, 2005**

(65) **Prior Publication Data**

US 2005/0176694 A1	Aug. 11, 2005
International Search Report;	Nov. 21, 2000.
Hungarian Novelty Search Report;	Mar. 23, 2004.
Cederqvist et al., <i>Biochem. Pharmacol.</i>	47(6), 1047-1053, 1994.
Bonn et al., <i>Cardiovasc. Drug Rev.</i>	16(3), 195-211, 1998.

OTHER PUBLICATIONS

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**Technology Transfer via
Patents, company collaboration, Contract Manufacturing**

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Drug Safety and Availability



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Tough Regulations

No. 31026/16/2020-Policy
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF PHARMACEUTICALS
NOTIFICATION

New Delhi, the 2nd June, 2020

Subject:- Production Linked Incentive (PLI) Scheme for promotion of domestic manufacturing of critical Key Starting Materials (KSMs)/ Drug Intermediates and Active Pharmaceutical Ingredients (APIs) In India.

1. Background

1.1. The mandate of the Department is to promote pharmaceutical industry and to ensure availability of drugs at affordable prices.

Government of India Incentives

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marketresearchposts.com/2020/07/31/steroids-market-2020-2025-demand-analysis-industry-size-share-growth-f... ☆

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Orlan Research

Steroids Market Latest Research Report 2020-2025 presents an in-depth analysis of the Steroids Industry situations, market size, share, growth, trends, regional demand and competitive analysis by Steroids market vendors. The report also studies market development models, opportunities, product scope, global dynamics, value chain, and investments strategies.

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