Lyrus Life Sciences

Lyrus – A full stack pharma manufacturer

Formulation Development

Lyrus has a dedicated, certified and well equipped research facility with a pool of 65+ scientists having extensive experience in all aspects of pharmaceutical development process of complex molecules.

Manufacturing

Lyrus has in-house capability for pilot scale manufacturing for all its formulation development of OSD products. Additionally, we have strategic manufacturing alliances globally to address market or dosage forms specific requirements by way of capacity-utilization based contracts with several EU approved manufacturing sites.

Generics and Specialty Formulation

Lyrus has more than 60 products and 150 SKUs registered/ under registration in several markets including Australia, EU, USA, Africa etc. Lyrus has also started registering its products in LATAM, GCC, Asean markets.

Formulation Development

Products

- Holds 46 Rx and 12 OTC MA jointly in ANZ & 11 in Europe. Several products in pipeline for ANZ, Europe, USA and SA

Research & Development

- Joint development model
- Full fledged team with expertise in complex generics

Manufacturing

- In-house plant to take-up validation batches
- Tied-up with 11 top notch CMOs
- Strategic investment in a CMO to cater to manufacturing needs

Distribution

- Tied up with market leaders for distribution in ANZ, Europe & South Africa

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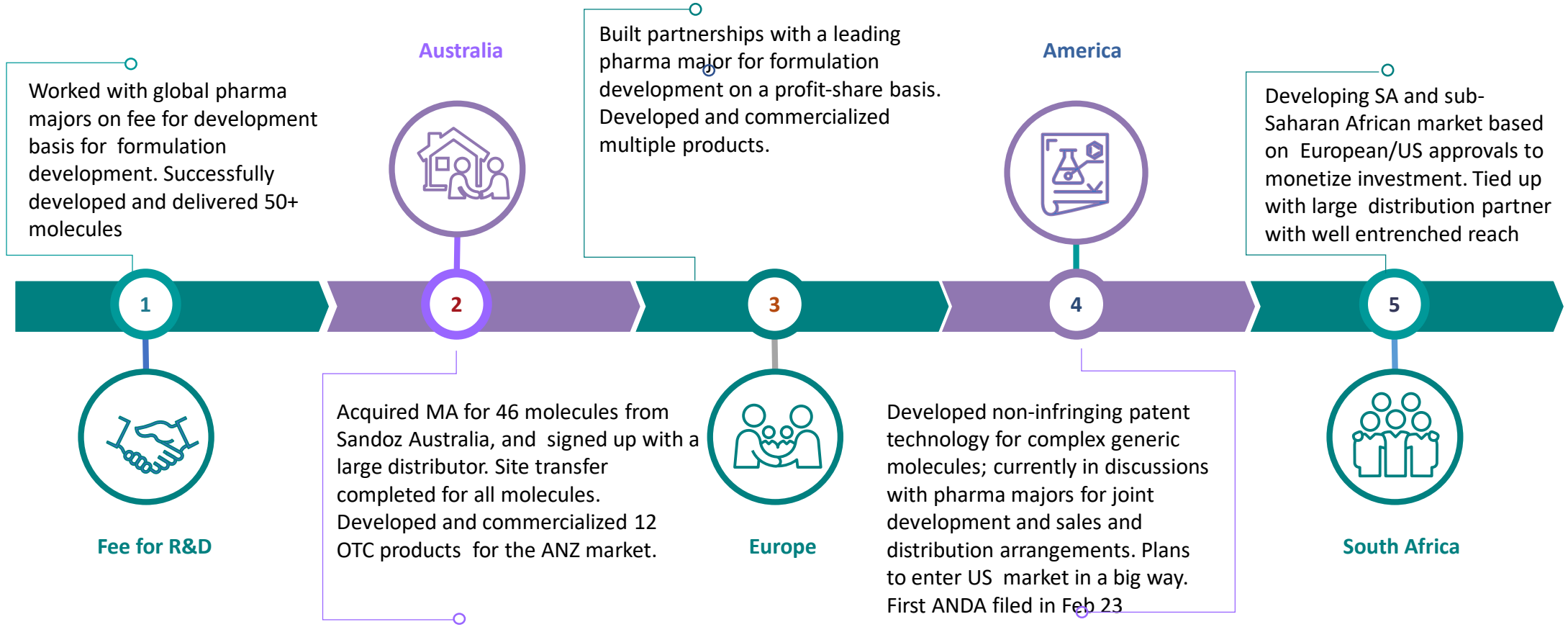
Key Milestones

Long and successful track record of producing high quality formulations



R&D Capabilities: 65+ scientists with expertise throughout the value chain

Spread across 75,000 SFT and equipped with the latest quality equipment

Fully integrated manufacturing and packaging

Manufacturing facility for solid oral formulations

Operational Since	2016
Site area (SFT)	75,000
Staff	90+
Space for Expansion(SFT)	30,000
Approvals	cGMP
Dosage Form	Tablets, Capsules and Topicals

Location Hoskote Industrial Area, Bangalore

Key Capabilities- A large capable team with experience from ideation to formulation and regulatory compliance

Ideation

- Identification of prospective drug candidate/ technology
- First level analysis and feasibility
- **Employees: 3**

Formulation Development

- Expertise in specialty and novel formulations
- High success rate of bio-equivalency
- **Employees: 16**

Analytical

- Advanced analytical techniques such as resin complex extraction
- Development services like API characterization, pre formulation, Method development and Validation, Stability testing etc
- **Employees: 43**

IP, Regulatory & Quality

- All of Lyrus novel technology is IP protected
- Development of regulatory strategy in a constantly changing environment
- Highly capable Quality tem to ensure adherence to regulatory requirements.
- Capability of writing dossiers in multiple formats – eCTD, ANDA, ACTD or country specific
- **Employees : 20**

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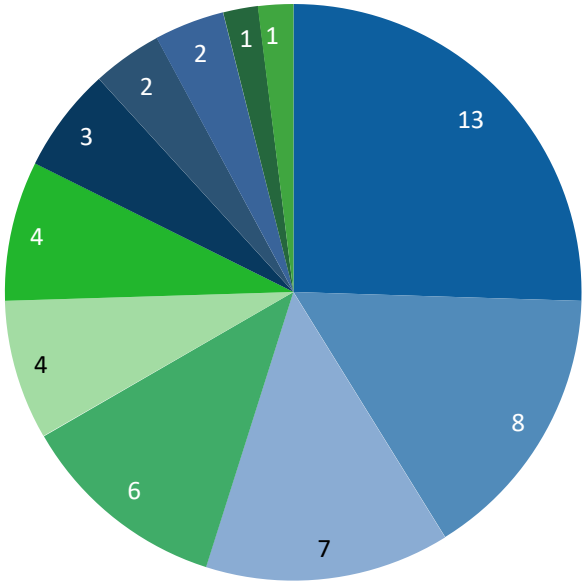
R&D Capabilities: Products Developed under Fee for Development Model

Therapeutic Areas



- Pain Management
- Allergy & Emesis
- Mucolytic
- Anti Bacterial
- GI Disorder
- Immunosuppressant
- CNS Disorder
- Vascular Disorders
- Muscle Spasm
- Diabetes Control
- Hormone Therapy

Dosage Forms

Tablets | Film Coated, Sugar Coated, Oral Disintegrating, Chewable, Sublingual. Multi-layered

Capsules | Hard Gelatine, Capsules with Powder, Granules in Capsule, Pellets in Capsule

Topicals | Ointments, Creams, Gels, Semi-solids

Liquid Orals | Emulsions, Suspensions, Syrups

Sachets | Sachets, Stick packs with powder or liquid

- Successfully developed and delivered 50+ complex generic formulations on a fee for development model
- The learnings from these have been successfully leveraged to develop branded OTC products and enter joint development models with pharma majors across therapeutic areas

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Manufacturing Capabilities: State of the art facility

Internationally approvable plant for validation batches ensures better control over dossier filing timelines

Fully integrated manufacturing and packaging

Manufacturing facility for solid oral formulations

Operational Since	2016
Site area (SFT)	28,000
Approvals	cGMP
Dosage Form	Tablets & Capsules

Overview

State of the art manufacturing facility created for solid oral formulations (Tablets and Capsules), manufacturing and packaging

Equipment	Automation controls & closed operation systems to avoid cross contamination
Design Criteria	Technologically advanced concepts and layouts encompassing flow of materials, production, QC, stores & personnel, HVAC Systems, Air Compressor system & other utilities

Location Hoskote Industrial Area, Bangalore

Key Equipments

- Dispensing booth with reverse laminar airflow
- Rapid mixer granulator
- Fluid bed processor / fluid bed drier
- Conta-blender
- Double rotary compression machine with metal detector and deduster
- Automatic coating pan
- Tablets/capsules inspection belt
- Automatic capsules filling machine
- Blister packing machine with auto-cartonator

1 acre of land available, opening the possibility to add a mid sized plant in the future

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Founding Team

Industry stalwarts having extensive experience in scaling companies in the pharma industry

Mr. C.P.Bothra | Chairman

- Over 4+ decades of experience in the Formulation manufacturing, R&D and API
- Experience in restructuring sick units into viable and profitable ventures
- Founder & MD of Medreich Ltd, a market leader in the formulations catering to global companies
- Scaled Medreich to revenues of ~INR 700+ Cr and successfully exited to Japanese major, Meiji Corporation

Mr. Hemanth Bothra | Managing Director

- 17 years of experience in the Pharmaceutical industry
- Built and scaled Trust Chemists & Druggists, a leading pharma retail chain in Karnataka to become largest hospital chain in India
- MBA from Cardiff University, London

Key Management Team

KMPs have decades of experience in global pharma companies

Rajesh Goel | CEO

- Over 15 years of experience in Teva & Apotex across activities related to Finance & Accounts, Global Procurement, Legal etc
- Key responsibilities here are developing new business territories, cost optimization and customer satisfaction
- Qualified CA, CS and Cost Accountant

Uma Maheshwari | VP - Global Compliance

- 24 years of pharma industry experience
- Experience in quality assurance, regulatory affairs, pharma covigilance & technology transfer
- Holds a Bachelors degree in Pharma, a MS in Pharma tech and a diploma in management

Elayaraja Natarajan | Head R&D

- Over 15 years of experience in product development in companies like Strides Shashun, Rubicon Research, Genovo & Medreich
- Associated with hundreds of ANDAs & Mas for US/EU submissions; Multiple patents and publications to his credit
- Holds a Master of Pharma degree with specialization in pharmaceutical sciences

Govindrajulu (Late) | GM- Finance and Accounts

- A qualified CA with 31 years of experience in various aspects of corporate finance
- 18+ years worked with Pharma companies as well as Oversees assignment
- Excellent understanding of direct and indirect taxation

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THANK YOU

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