

Tuas Biomedical Park

About Tuas Biomedical Park



Tuas Biomedical Park symbolises JTC's commitment in developing a world-class manufacturing hub for the biomedical industry. The park is located in Tuas View, the westernmost tip of Singapore.

Tuas Biomedical Park currently occupies a land area of 183 hectares (ha). To support the growth of Singapore's biomedical industry, the park will be expanded to include an adjacent 188 ha site.

This strategy of cluster development aims to bring about benefits such as greater economies of scale through sharing of major infrastructure, targeted and specialised management of cluster's niche requirements as well as fostering of community ties.

Infrastructure Development

The Tuas Biomedical Park is designed for bulk active pharmaceutical, biopharmaceutical manufacturers and all biomedical-related companies. Key infrastructural provisions of power, water, telecommunication, gas and sewer requirements are available in the park.

In addition to hard infrastructure, JTC has invested around \$6 million in landscaping to create a conducive and inspiring environment for the knowledge-based enterprises in the park. As part of the landscape enhancement project, a landmark sculpture now stands at the park's entrance to mark the gateway into Asia's premier Biomedical Park.

Companies in Tuas Biomedical Park

Tuas Biomedical Park is now home to these 11 global biomedical companies:

- Abbott Manufacturing Singapore Private Limited
- CIBA Vision Asian Manufacturing and Logistics Pte Ltd
- Genentech Singapore Pte Ltd
- GlaxoSmithKline Biologicals (Singapore) Pte Ltd
- Lonza Biologics Singapore Pte Ltd
- Lonza Biologics Tuas Pte Ltd
- Merck Sharp & Dohme (Singapore) Ltd.
- Novartis Singapore Pharmaceutical Manufacturing Pte Ltd
- Pfizer Asia Pacific Pte Ltd
- Wyeth Nutritionals (Singapore) Pte Ltd
- Alcon Singapore Manufacturing Pte. Ltd

Please refer to Appendix for more information on the companies in Tuas Biomedical Park.

Brief History of Biomedical Companies in Singapore

In the 1980's and prior to the development of Tuas Biomedical Park, multinational biomedical companies operated in Jurong Industrial Estate and other parts of Singapore. They include Becton Dickinson, Edwards Lifesciences, GlaxoSmithKline, Kaneka, MDS Inc, Sanofi-Aventis, Schering-Plough, etc. Some of these companies set up plants in Singapore from as early as in the 1970's. The list of companies is as follows:

<u>Biomedical Company</u>	<u>Year</u>
Kaneka	1979
GlaxoSmithKline	1980
Becton Dickinson	1987
Sanofi-Aventis	1990
Schering Plough	1994
Edwards Lifesciences	2006
MDS Inc (MDS Sciex)	2006

Appendix: Information on Companies in Tuas Biomedical Park

Biomedical Companies	Land Allocated (ha)	Year of Entry
• Merck Sharp & Dohme (Singapore) Ltd	19.4	1998
• Wyeth Nutritionals (Singapore) Pte Ltd	8.6	1999
• Pfizer Asia Pacific Pte Ltd	9	2000
	7.32	2007
• CIBA Vision Asian Manufacturing and Logistics Pte Ltd	5	2003
• Novartis Singapore Pharmaceutical Manufacturing Pte Ltd	8	2004
	8.77	2008
• GlaxoSmithKline Biologicals (S) Pte Ltd	8.8	2001
• Lonza Biologics (S) Pte Ltd	4.2	2006
• Abbott Manufacturing Singapore Pte Ltd	16	2006
• Lonza Biologics Tuas Pte Ltd	4.2	2007
• Genentech Singapore Pte Ltd	8.37	2007
• Alcon Singapore Manufacturing Pte Ltd	8	2008

Companies Information

Merck Sharp & Dohme (Singapore) Ltd (MSD)

- A wholly owned subsidiary of Merck & Co., Inc.
- First tenant to move into TBP in Year 1998.
- Took up 12 ha of land for its 1st primary production plant in Singapore, producing active pharma ingredient for the company's key products such as VIOXX & SINGULAR.
- Deputy Prime Minister and Coordinating Minister for Security & Defence Dr. Tony Tan officially opened this plant on 12 Sept 2001.
- In Year 2000, MSD exercised its option site and took up another 7.4 ha for the 2nd plant.

Wyeth Nutritionals (Singapore) Pte Ltd

- Plant was officially opened on 8 April 2002 by then Minister for Trade and Industry, BG George Yeo.
- Wyeth Nutritionals specialises in paediatric nutritionals. Some of their products are the well-known household brands including S26, Promil & Progress.

Pfizer Asia Pacific Pte Ltd

- Current land area of 9 ha with another 7.3 ha as option land for future expansion plans.
- Plant for Phase I development was officially opened on 16 April 2004 by then Deputy Prime Minister and Coordinating Minister for Security & Defence Dr Tony Tan.
- A primary production plant specialising in active pharma ingredients (API).

CIBA Vision Asian Manufacturing and Logistics Pte Ltd

- Site will house a contact lens manufacturing facility and include a replenishment centre for warehousing and distribution.

Novartis Singapore Pharmaceutical Manufacturing Pte Ltd

- The new \$310 million facility was in full operations in 2008. It focuses on the bulk production of products such as anti-hypertension drug Diovan, abdominal discomfort treatment drug Zelnorm and new cancer drug Gleevec.
- In October 2007, Novartis announced its plans to locate its biologics production facility in Singapore to support the rapid growth of its biologics sector, which accounts for 25% of Novartis' product pipeline. This state-of-the-art cell culture facility, which comprises a process R&D laboratory, a clinical-scale manufacturing facility and a commercial-scale facility, is Novartis' largest worldwide investment in manufacturing capacity. The production facility will use mammalian cell culture technology to support the clinical and commercial manufacturing of protein-based drugs, currently in the company's development pipeline, for a variety of medical conditions, including rheumatoid arthritis, cancer, asthma and spinal cord injury.

GlaxoSmithKline Biologicals (S) Pte Ltd

- Its new \$300 million facility focuses on the bulk production of vaccines like meningitis and pneumonia.
- This is the first bulk vaccine plant for GSK in Asia Pacific.

Lonza Biologics (S) Pte Ltd

- Lonza's \$350 million facility focuses on the bulk production of biological products.
- This is the first large scale bulk biologics manufacturing plant in Singapore.

Abbott Manufacturing Singapore Pte Ltd

- A \$450 million facility that focuses on the bulk production of nutritional products like Grow.

Lonza Biologics Tuas Pte Ltd

- A joint venture between Lonza Group and Singapore's Bio* One Capital, it is Lonza's second largest mammalian manufacturing plant in Singapore.
- Expected to be operational in 2011, the plant will have up to four mammalian

bioreactor trains, each with a flexible capacity of between 1,000 to 20,000 litres and includes the respective purification units.

Genentech Singapore Pte Ltd

- When fully operational in 2010, the facility will provide 1,000 litres of capacity for the production of E. coli derived products.
- It will be Singapore's first microbial-based biopharmaceutical manufacturing facility.

Alcon Singapore Manufacturing Pte. Ltd

- Alcon's \$150 million facility is the first ophthalmic pharmaceutical drug manufacturing investment in Singapore.
- The facility will fill and finish ophthalmic pharmaceutical drugs under aseptic conditions.
- It will significantly enhance and boost efforts in growing the Vision Care industry in Singapore when it is fully operational in 2011.