

# Singapore site capabilities

Thermo Fisher Scientific's new Singapore site is a state-of-the-art cGMP sterile drug product facility for the development and commercial manufacturing of critical medicines and vaccines, both regionally and globally. The site was established with the support of the Singapore Economic Development Board (EDB), in alignment with the government's investment in preparedness for future health emergencies.

## Singapore facts

Regulatory approval	In Progress
Potency capability	Up to Cat 3b (3b evaluated case by case)
Workforce	Approx. 100 + employees for line 1
Contact info	<p>📍 31 Joo Koon Circle, Singapore</p> <p>☎ +1 919 226 3200</p> <p>✉ pharma-service@thermofisher.com</p>
Capabilities	<p>Existing capabilities</p> <ul style="list-style-type: none"> <li>• Jacketed tanks and disposable bag technology (Up to 1000L)</li> <li>• Single use technologies and flexible facility design</li> <li>• In house QC capabilities</li> <li>• Sterile Liquids (SVP)</li> </ul> <p>Biopharmaceuticals</p> <ul style="list-style-type: none"> <li>• Commercial scale filling</li> <li>• Process development / small scale filling</li> <li>• Packaging</li> </ul> <p>Expansion capabilities (not currently available)</p> <ul style="list-style-type: none"> <li>&gt; Sterile lyophilized products</li> <li>&gt; Prefilled syringes</li> <li>&gt; Prefilled cartridges</li> </ul>

## Drug product dosage form

Size / details	Early development (into part of phase II)			Late development		Commercial supply		
	Formulation development	Analytical development	Phase I	Phase I	Phase II	Commercial scale up	Tech transfer	Regulatory
Liquid vials						●	●	●
Lyophilized vials						*	*	*
Prefilled syringes						*	*	*
Prefilled cartridges						*	*	*

★ = Future capability

● = Available now

## Singapore key equipment list - sterile dose

Singapore key equipment list - sterile dose		Prefilled syringes	Prefilled cartridges	Liquid vials	Lyophilized vials
Compounding	Single Use Mixer , Compounding Skid	●	●	●	●
Washing	Vials washer	*	*	●	●
	Parts washer	●	●	●	●
Depyrogenation	Tunnel (vials)	*	*	●	●
Componet sterilization and drying	Autoclaves	●	●	●	●
Filling and stoppering	IMA extrema High Speed Vial Filling Line with Isolator (24000 vials per hour)			●	●
	Variosys Bausch & Strobel Small scale filling line (Q4 2023 -Q1 2024)			●	
	PFS Filler	*			
	Cartridge Filler		*		
Lyophilisation	Lyophiliser				●
Capping	Vial capper / crimper			●	●
	External washer	*	*	●	*
Terminal sterilization	Not Available				
Filling and stoppering	Semi-automated visual inspection system	*	*	●	*
	Fully-automatic visual inspection for liquids (24000 pcs/hr) & HVLVD			●	
	Manual Inspection	●	●	●	●
	Labeller	●	●	●	●
	Cartoner	●	●	●	●
	Coding station for Serialization	●	●	●	●
	Aggregation and Manual Case Packer	●	●	●	●

For detailed capabilities and capacity information, please contact your Thermo Fisher Scientific representatives.