

BIOREACTOR ENGINEERING

Chapter 1

Introduction of Bioprocess Engineering

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Assignment

Table below shows the products from submerged fermentation and solid-state fermentation. Determine the microorganism and substrate used in the fermentation. You may find the information from journals.

Submerged Fermentation			Solid-state Fermentation		
Product	Microorganism	Substrate	Product	Microorganism	Substrate
Lactic acid			Soy source		
Ethanol			Miso		
Human serum albumin			Tempeh		
Gluconic acid			Hamanatto		
Xanthan gum			SUFU		

