

Specialized services:

- Up-scaling of microbial fermentation from benchtop to pilot scale capabilities
- Batch fermentation
- Downstream processing that require ultrafiltration, centrifugation and freeze drying equipment
- Contract research related to fermentation process

Freeze dryer

Model: FD 50
Automatic pre-freezing
Max capacity 50 L
No. of tray up to 16 pcs.



Upstream
Process

Contract
Research
Project

Downstream
Process



Additional Equipment

Autoclave
Biosafety cabinet
Fume hood
Incubator shaker
Peristaltic pump
Storage tank 4x200 liter
RO and DI water system

Fermentation Technology Research & Service Center
AI 3 Building, Kasetsart University
Ngamwongwan Road, Ladyao, Chatuchak,
Bangkok 10900 Thailand
GPS 13.852956, 100.572167

For more information please contact:

Mr. Nattapat Hobang
Mobile: 086-350-10712
E-mail: nattapath@betagro.com

Ms. Warintorn Eaksuree
Mobile: 089-770-0757
E-mail: warintorne@betagro.com

ศูนย์วิจัยและบริการเทคโนโลยีการหมัก
FERMENTATION TECHNOLOGY RESEARCH & SERVICE CENTER

Supported by
Kasetsart University
Agricultural Research Development Agency
(Public Organization)
Betagro Group

Our services:

Fermentation Technology Research & Service Center (FTC) offers a wide range of services to both clients from industry and academic who require a pilot scale fermentation processes for their works. The services include upstream and downstream processing and also single and/or combination of equipment usage. Our value propositions are to provide the unmet needs of the up-scaling fermentation facility require for researchers and/or manufacturers who have done works successfully at a laboratory level. The ultimate goal is to assist those users to deliver the new products and accomplish the promising research works.

Fermentor 70 L

Model: MSJT-N-70L
Working volume 25-50 L
Agitation speed 100-800 rpm
pH control
Temperature control
Aeration rate 0.1-1 vvm



Continuous centrifuge

Model: CLARA 20 LFCL
Bowl speed 9,512 rpm
Minimum flow rate 100 L/hrs.



Fermentor 10 L

Model: Bioneer-N-10L
Working volume 3-7 L
Agitation speed 100-800 rpm
pH control
Temperature control
Aeration rate 0.1-1 vvm



Fermentor 750 L

Model: MPFT-N-750L
Working volume 200-500 L
Agitation speed 60-350 rpm
pH control
Temperature control
Aeration rate 0.1-1 vvm



Ultrafiltration

Model: Sartocoon II
Molecular weight cut-off 30 kDa
Concentration rate ~50 L/hrs.t

