



Dr. Wai Prathumpai

ใครก็อยากมีผิวสวยและสุขภาพดี





Anti-inflammatory



Wound healing



UV- Protection



Anti-aging



Moisturizer

Cosmetics





Anti-inflammatory



Wound healing



UV- Protection



Anti-aging



Moisturizer



Immune Boosting



Prebiotics



Healing Botanical



Healthy aging

Cosmetics

**Food &
Supplement**





Anti-inflammatory



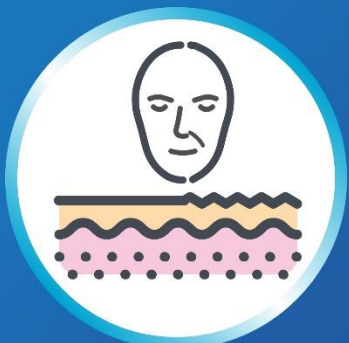
Wound healing



Immune Boosting



Prebiotics



Anti-aging



UV- Protection



Moisturizer



Healing Botanical



Healthy aging

Beta glucan

Cosmetics

**Food &
Supplement**



Anti-inflammatory



Wound healing



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Anti-aging



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Moisturizer



Healing Botanical



Healthy aging

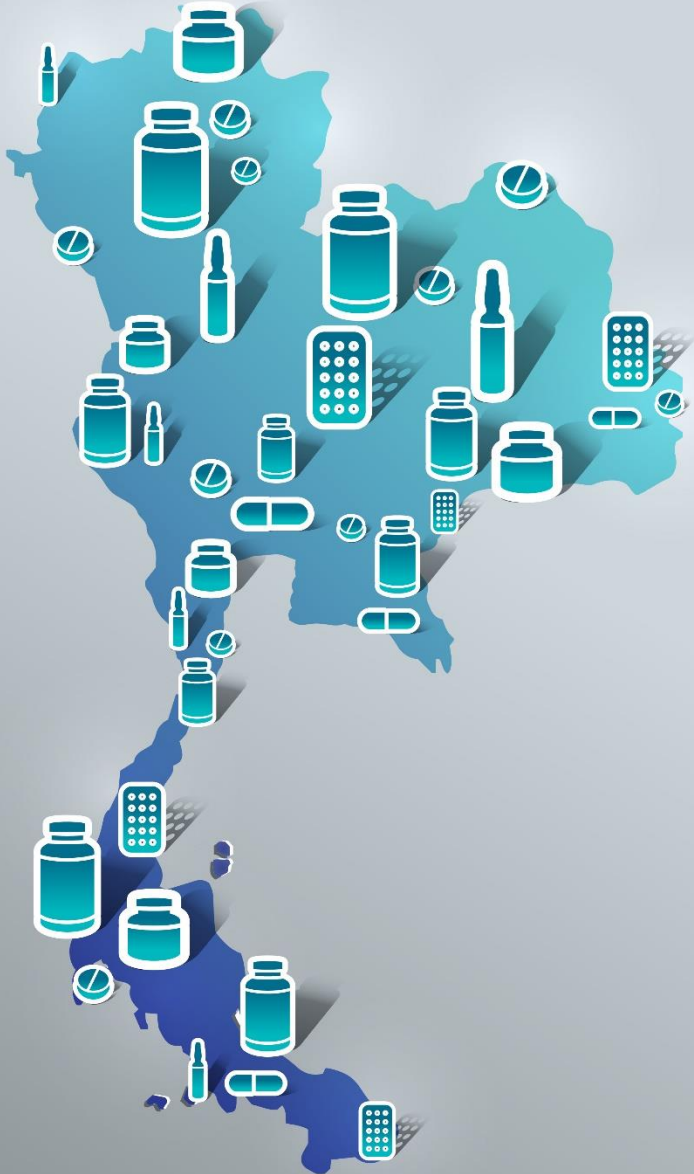
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Cosmetics

**Food &
Supplement**

Thailand Market Size

**Food
&
Supplement**
211,000
MB.



Thailand Market Size



**Food
&
Supplement**
211,000
MB.

Non - Food
162,000
MB.

Thailand Market Size



Euromonitor International. April 2019.

Health and Wellness in Thailand.

Euromonitor International. June 2019.

Skin Care in Thailand.

Euromonitor International. February 2019.

Dietary Supplements in Thailand.

**Food
&
Supplement**
211,000
MB.

Non - Food
162,000
MB.

Market area

Beta-Glucan market, By Region, 2022

34%

Europe

31%

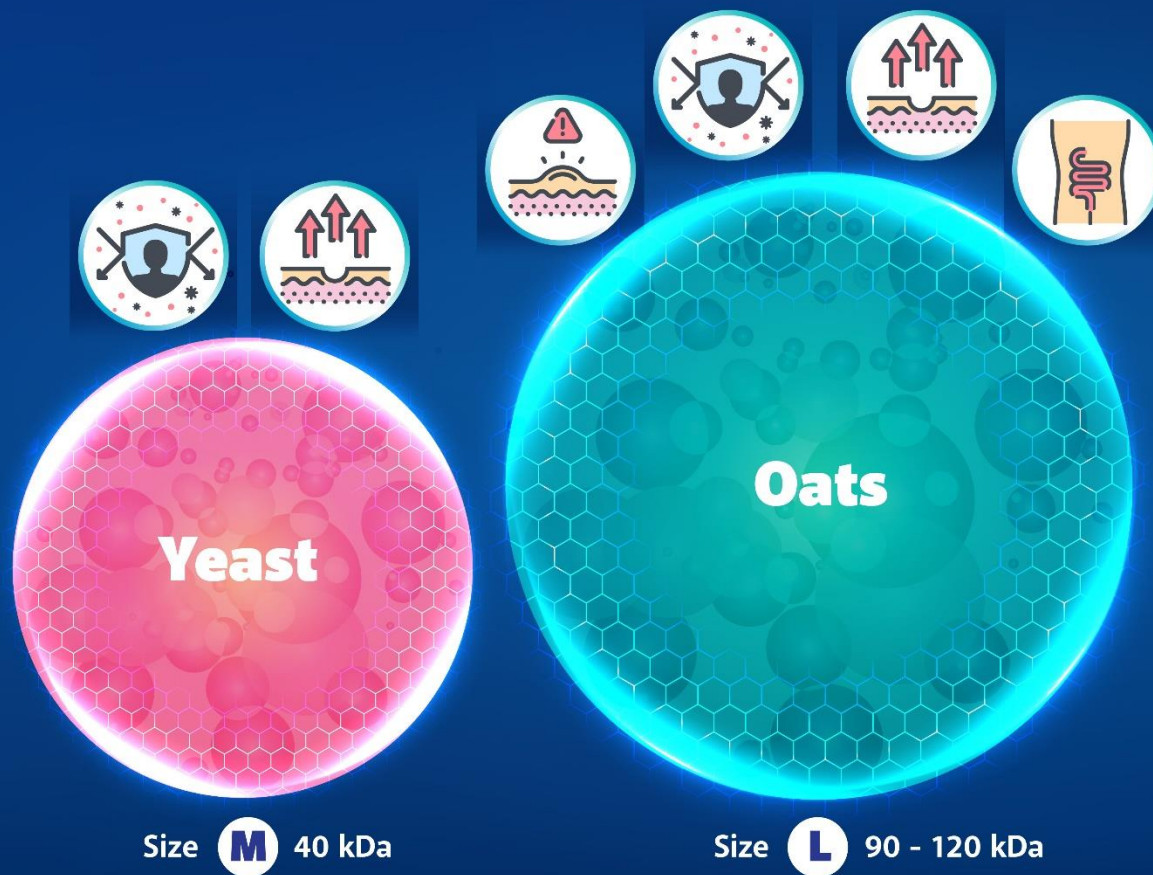
North America

20%

Asia Pacific

15%

ROW





Opportunity of new product and new market



size customization

*1 kDa = 1.66×10^{-20} grams



Opportunity of new product and new market

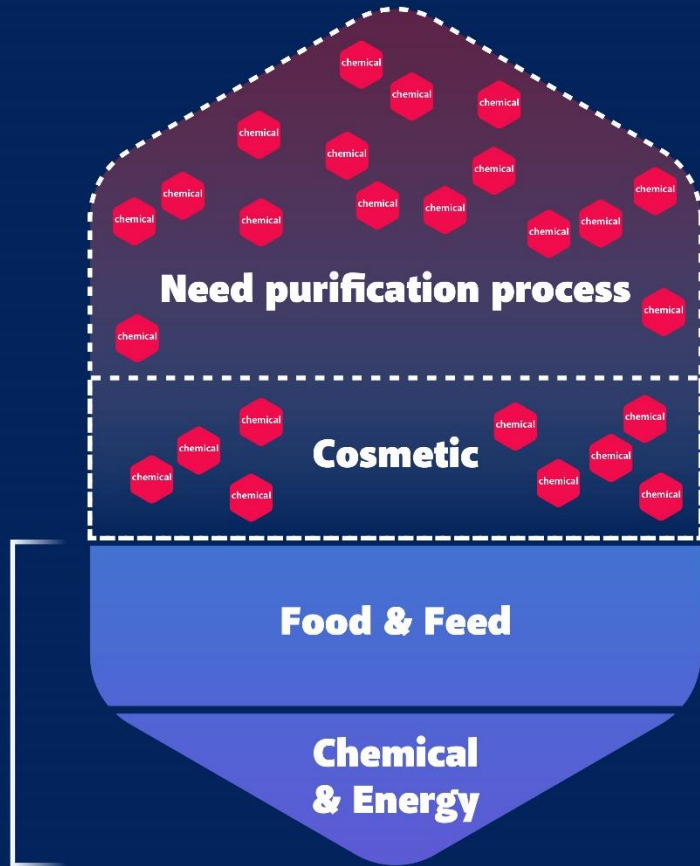


size customization

*1 kDa = 1.66×10^{-20} grams

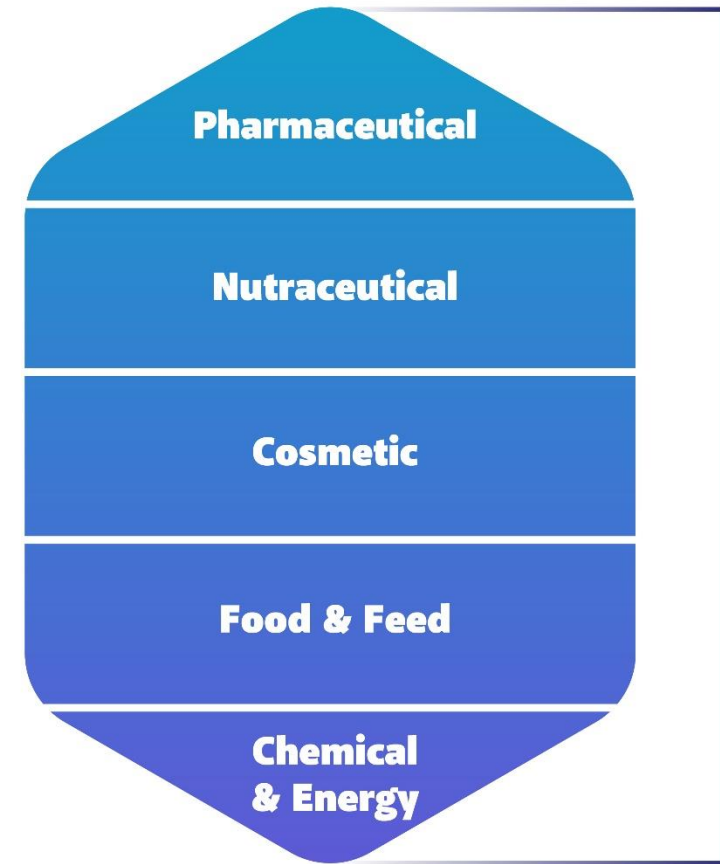
size customization

Current Beta-glucan



Initial purity < 65%

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Initial purity > 95%

BETA^{PRIME} Technology



Microorganism



**Fermentation
Process**



**Downstream
Process**

BETA PRIME Technology



Microorganism



Fermentation Process



Downstream Process



Patented

BETA PRIME Technology



Microorganism



Fermentation Process



Downstream Process

Project by project

2.6-6 MB

20-60 MB

Patented



Team



Wai Prathumpai

ไ้ ประทุมพาย (ไ้)

BIOTEC researcher
Project leader for Process development



Borworn Werapan

บวร วีระพันธุ์ (เบียร์)

BIOTEC research assistant



Pumin Nutaratat

ภูมิน นุตรัตต (ตั้ม)

BIOTEC post-doctoral researcher

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สวย สุขภาพดีด้วย...

BETAPRIME
Technology for better life

