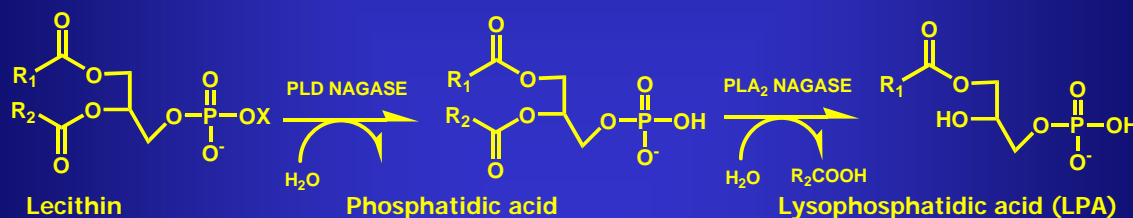


## Functional phospholipid: Soy Bean Lysophosphatidic acid prepared by microbial enzyme process

### Characteristics

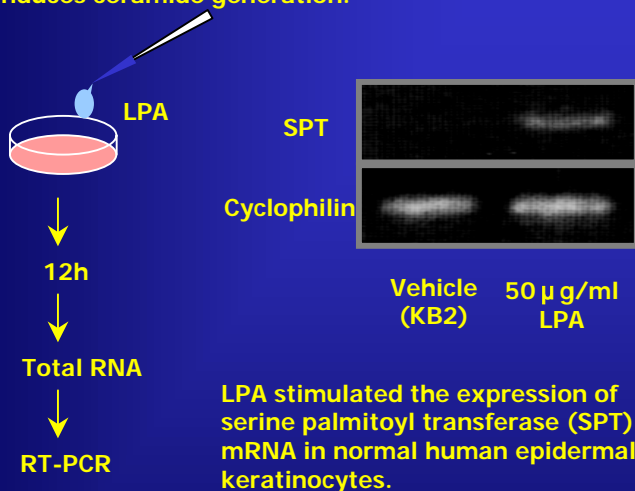
- Strong emulsification leads to strong O/W emulsion
- High interfacial activity leads to high foaming property
- High binding property with protein and starch
- High moisturizing activity
- Easily dissolved in water
- induces ceramide generation

### Synthesis with Enzymatic Reaction



### Function (ceramide generation)

LPA enhanced SPT gene expression.  
It induces ceramide generation.



### Spec.(tentative)

LPA content	> 20 %
Arsenic as As <sub>2</sub> O <sub>3</sub>	3 mg/g
Heavy metals as Pb	5 mg/g
Viable cell count	10,000 CFU/g
E. coli	Negative
Salmonella	Negative
Acid value	40
Peroxide value	10

### Storage data

with nitrogen gas : 1year, 25

### Safety data

- mutagenicity/genotoxicity test : Negative