

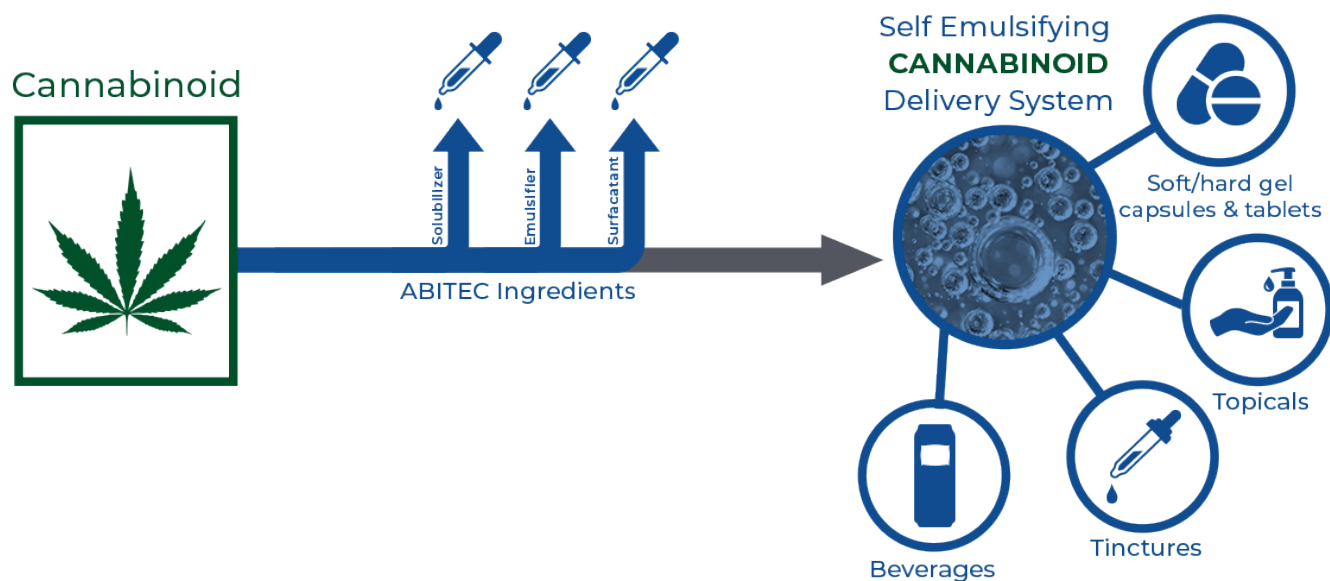
# Cannabis Delivery

Utilizing Functional Lipid Ingredients



# CBD Isolate Solubility & ABITEC Lipids

ABITEC Lipid	Classification	Chemistry	Application	CBD Solubility (%w/w) Visual	CBD Solubility (%w/w) Determined
CAPTEX® 8000	Solubilizer	MCT	Solubilization	40	42.63
CAPTEX 355	Solubilizer	MCT	Solubilization	30	
CAPTEX 1000	Solubilizer	MCT	Solubilization	30	
CAPTEX GTO	Solubilizer	LCT	Solubilization Lymphatic transport enhancer	15	
CAPTEX MCM C8	Emulsifier	Mono-, diglyceride	Emulsification	40	42.50
CAPMUL® GMO-50	Emulsifier	Mono-, diglyceride	Emulsification Lymphatic transport Transdermal penetration enhancer	45	45.19
CAPMUL 471	Emulsifier	Mono-, diglyceride	Emulsification	30	
CAPMUL 808G	Solubilizer	MCT	Solubilization	40	
CAPROL® MPGO	Emulsifier	Polyglycerol ester	Emulsification Lymphatic transport enhancer Liquid taste masking	20	
CAPMUL PG-12	Emulsifier	Mono-, diglyceride	Emulsification Transdermal Penetration enhancer	10	
CAPROL PGE 860	Emulsifier	Polyglycerol ester	Emulsification Lymphatic transport enhancer Liquid taste masking	10	



Typical lipid-based delivery systems consist of a solubilizer, emulsifier and a surfactant to aid in optimal formulation results. ABITEC supplies a portfolio of ingredients to optimize these formulations.

# ABITEC Self Emulsifying Lipid Delivery Systems for Beverages & Tinctures

## Benefits you can expect:

- ✓Clean Label
- ✓Low Energy
- ✓Minimal Taste

**Bonus:** ABITEC ingredients support flavors & flavor masking

## Clear Beverage Suggested Formulations:

Ingredient	%
Cannabis of Your Choice	33.5
CAPTEX® 8000	16.5
CAPMUL® GMO-50 OR CAPMUL MCM C8	16.5
Quillaja, liquid*	33.5

## Opaque Liquids Suggested Formulations:

Ingredient	%	Ingredient	%
Cannabis of Your Choice	33.5	Cannabis of Your Choice	40
CAPTEX® 8000	16.5	CAPTEX® 8000	20
CAPROL® PGE-860 OR CAPMUL® GMO-50	16.5	CAPMUL® MCM C8	20
Lecithin, liquid* or Quillaja, liquid*	33.5	Lecithin, liquid* or Tween 80*	20

# ABITEC Self-Emulsifying Lipid Delivery Systems for Gummies & Softgels

## Benefits you can expect:

- ✓Clean Label
- ✓Low Energy
- ✓Maximize Concentration

## Suggested formulations

Ingredient	%
Cannabis of Your Choice	33.5
CAPTEX® 8000	16.5
CAPMUL® GMO-50 OR CAPMUL MCM C8 OR CAPROL® PGE-860	16.5
Quillaja, liquid* or Lecithin, liquid*	33.5

Ingredient	%
Cannabis of Your Choice	20
CAPTEX® 8000	40
CAPMUL® MCM C8	16.75
Vitamin E TPGS*	23.25

Ingredient	%
Cannabis of Your Choice	40
CAPTEX® 8000	20
CAPMUL® MCM C8	20
Tween 80*	20





ABITEC Corporation is part of ABF Ingredients and is headquartered in Columbus, Ohio, US with two manufacturing sites in the Midwest. ABITEC specializes in the manufacturing and distribution of specialty lipid ingredients for use in the pharmaceutical, nutraceutical, and specialty chemical markets.

Larodan, located in the Karolinska Institute in Stockholm Sweden, develops, manufactures and markets a comprehensive range of high purity lipids for the international market. Serving numerous research and pharmaceutical markets, Larodan's aim is to be an optimal partner for lipid-related research and product development needs.

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