

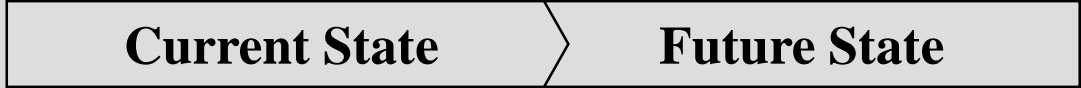


FDA Public Hearing
Cannabis Derived Compounds
May 31st 2019

Hemp Derived Products Are Manufactured to High Standards Today



High Mfg. & Product Quality Standards...



Consumer Safety

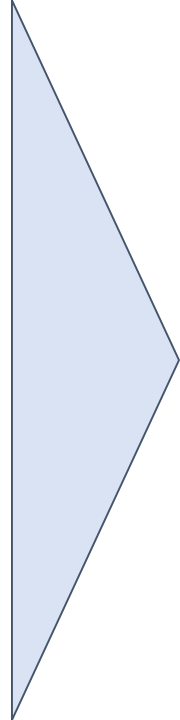
- Setting applicable manufacturing standards of CBD raw materials (e.g., low levels of psychoactive compounds such as THC)
- Federal & state regulatory agencies to jointly develop guidelines (e.g., consumer product specifications) with manufacturers

Quality Management Systems

- Production and process control with complete traceability from farm to product (e.g., SOP's, Master Manufacturing Records)
- Need infrastructure to support higher quality control on federal level (e.g., cGMP, FSMA, GFSI, PCQI compliance)

Validated Testing

- Sophisticated lab testing services available to keep manufacturing in compliance with state regulations (e.g., pesticides, microbials, etc.)
- Standardized testing methods developed by federal agencies (e.g., NIST, USDA) & industry to be adopted by stakeholders



...Build A Stronger Consumer Safety Infrastructure

- **Quality Transparency:** Inform end-consumers through regulations on packaging & labeling (e.g., warnings and disclaimers for THC content, cannabinoid purity)

Supplement Facts		
Serving Size: One Tablet		
One Tablet Contains:		%DV
Vitamin A (50% as retinyl acetate and 50% as beta-carotene)	5000 IU	100%
Vitamin C (as ascorbyl palmitate)	15 mg	25%
Thiamine (as Thiamine mononitrate)	12 mg	800%
Niacin (as niacinamide)	60 mg	300%
Copper (as cupric oxide)	1 mg	50%
Potassium (as potassium chloride)	10 mg	<1%
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Boron (as aspartate)	200 mcg	*
Tyrosine (as L-Tyrosine)	100 mg	*
Taurine	100 mg	*
Licorice (root) Glycyrrhiza glabra	50 mg	*
Milk Thistle extract (seed) Silybum		*
Marianum (80% Silymarin)	50 mg	*

* Daily Value (DV) not established

Nutrition Facts	
8 servings per container	
Serving size 2/3 cup (55g)	
Amount per serving	
Calories	230
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% Daily Value*	
Total Fat 8g	10%
Saturated Fat 1g	5%
Trans Fat 0g	
Cholesterol 0mg	0%
Sodium 160mg	7%
Total Carbohydrate 37g	13%
Dietary Fiber 4g	14%
Total Sugars 12g	
Includes 10g Added Sugars	20%
Protein 3g	
Vitamin D 2mcg	10%
Calcium 260mg	20%
Iron 8mg	45%
Potassium 235mg	6%

*The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

- **Ingredient Safety:** Create pathway for NDI & GRAS notifications for hemp derived extracts as a dietary ingredient & food additive (e.g., similar to fish oils)
- **Product Safety:** Providing consumer assurance through federally validated quality management systems and manufacturing compliance standards to create products with ingredients consumers can trust (e.g., USP monograph)

And tomorrow, federal regulations allow manufacturers to serve consumers with higher quality & safety standards