

PRODUCT NAME

Humulene	WS, FA
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PRODUCT NUMBER

H3010

SENSORY DATA

Form	Powder, free-flowing
Color	White
Taste	Citrus, Spicy
Smell	Fruity

CHEMICAL & PHYSICAL PROPERTIES

	Min.	Max.
pH	3.5	5.0
Moisture, %	-	2.0
Water Activity	-	0.4
Zeta Potential, mV	- 30	- 50
Bioavailability Potential, %	-	78.4
Onset, min	5	15
Offset, hrs	1	2

LASER DIFFRACTION

	Min	Max
Microparticle, µm	30	75

* X10, X50, X90 available upon request

DYNAMIC LIGHT SCATTERING

	Min	Max
Nanoemulsion, nm	25	50

* D10, D50, D90 available upon request

NUTRITIONAL DATA / 1g

	Typical
Energy, kcal	1.00
Total Fat, g	0
Saturated Fat, g	0
Trans Fat, g	0
Sodium, mg	15.00
Total Carbohydrate, g	0.50
Dietary Fiber, g	0
Total Sugars, g	0.50
Protein, g	0
Calcium, mg	0
Potassium, mg	0
Magnesium, mg	0
Citrus Extract, mg	100.00

INGREDIENTS

Maltodextrin, Citrus Extract, Natural Flavors, Sea Salt, Citric Acid

FEATURES & BENEFITS

No Dairy	Safe & Effective
No Soy	Artisan Powder
No Gluten	Water-Soluble (WS)
No Vitamin E Acetate	Fast-Acting (FA)
No Glycerin	Functional Essential Oil
No PG or PEG	Unsweetened
No Artificial Preservatives	Food Science Innovation
No Artificial Sweeteners	World's Most Bioavailable
No Artificial Flavor	Nanoemulsion
No Artificial Color	Citrus-Derived Terpenes

CANNABINOID DATA

	%	Result
CBC	*	*
CBD	*	*
CBDa	*	*
CBDv	*	*
CBG	*	*
CBGa	*	*
CBN	*	*
Delta-8 THC	*	*
Delta-9 THC	*	*
Delta-10 THC	*	*
THCa	*	*
THCv	*	*

* Absence

ESSENTIAL OIL DATA

	%	Result
Caryophyllene	*	*
Cinnamaldehyde	*	*
Citral	*	*
Citronellol	*	*
Eugenol	*	*
Geraniol	*	*
Humulene	10	100 mg / g
Limonene	*	*
Linalool	*	*
Myrcene	*	*
Nerol	*	*
Nerolidol	*	*
Ocimene	*	*
Pinene	*	*
Sabinene	*	*
Terpineol	*	*
Terpinolene	*	*
Valencene	*	*

* Trade Secret

PESTICIDES

	Action Level *	Result *
Abamectin	300	< LOQ
Acephate	3000	< LOQ
Acequinocyl	2000	< LOQ
Acetamiprid	3000	< LOQ
Aldicarb	100	< LOQ
Azoxystrobin	3000	< LOQ
Bifenazate	3000	< LOQ
Bifenthrin	500	< LOQ
Boscalid	3000	< LOQ
Captan	3000	< LOQ
Carbaryl	500	< LOQ
Carbofuran	100	< LOQ
Chlorantraniliprole	3000	< LOQ
Chlordane	100	< LOQ
Chlorfenapyr	100	< LOQ
Chlormequat Chloride	3000	< LOQ
Chlorpyrifos	100	< LOQ
Clofentezine	500	< LOQ
Coumaphos	100	< LOQ
Cyfluhtrin	1000	< LOQ
Cypermethrin	1000	< LOQ
Daminozide	100	< LOQ
Diazinon	200	< LOQ
Dichlorvos	100	< LOQ
Dimethoate	100	< LOQ
Dimethomorph	3000	< LOQ
Ethoprophos	100	< LOQ
Etofenprox	100	< LOQ
Etoxazole	1500	< LOQ
Fenhexamid	3000	< LOQ
Fenoxycarb	100	< LOQ
Fenpyroximate	2000	< LOQ
Fipronil	100	< LOQ
Fonicamid	2000	< LOQ
Fludioxonil	3000	< LOQ
Hexythiazox	2000	< LOQ
Imazalil	100	< LOQ
Imidacloprid	3000	< LOQ
Kresoxim Methyl	1000	< LOQ
Malathion	2000	< LOQ
Metalaxyl	3000	< LOQ
Methiocarb	100	< LOQ
Methomyl	100	< LOQ
Methyl-Parathion	100	< LOQ
Mevinphos	100	< LOQ
Myclobutanil	3000	< LOQ

* Parts Per Billion (PPB)

PESTICIDES (CONTINUED)

	Action Level *	Result *
Naled	500	< LOQ
Oxamyl	500	< LOQ
Paclobutrazol	100	< LOQ
Pentachloronitrobenzene	200	< LOQ
Permethrin	1000	< LOQ
Phosmet	200	< LOQ
Piperonylbutoxide	3000	< LOQ
Prallethrin	400	< LOQ
Propiconazole	1000	< LOQ
Propoxur	100	< LOQ
Pyrethrins	1000	< LOQ
Pyridaben	3000	< LOQ
Spinetoram	3000	< LOQ
Spinosad	3000	< LOQ
Spiromesifen	3000	< LOQ
Spirotetramat	3000	< LOQ
Spiroxamine	100	< LOQ
Tebuconazole	1000	< LOQ
Thiacloprid	100	< LOQ
Thiamethoxam	1000	< LOQ
Trifloxystrobin	3000	< LOQ

* Parts Per Billion (PPB)

RESIDUAL SOLVENTS

	Action Level *	Result *
1,1-Dichloroethene	8	< LOQ
1,2-Dichloroethane	5	< LOQ
Acetone	5000	< LOQ
Acetonitrile	410	< LOQ
Benzene	2	< LOQ
Butanes	2000	< LOQ
Chloroform	60	< LOQ
Ethanol	5000	< LOQ
Ethyl Acetate	5000	< LOQ
Ethyl Ether	5000	< LOQ
Ethylene Oxide	5	< LOQ
Heptane	5000	< LOQ
Hexane	290	< LOQ
Isopropyl alcohol	500	< LOQ
Methanol	3000	< LOQ
Methylenechloride	600	< LOQ
Pentane	5000	< LOQ
Propane	2100	< LOQ
Toluene	890	< LOQ
Total Xylenes	2170	< LOQ
Trichloroethylene	80	< LOQ

* Parts Per Million (PPM)

MICROBIOLOGY

		Result *
Aspergillus favus		Absence
Aspergillus fumigatus		Absence
Aspergillus niger		Absence
Aspergillus terreus		Absence
Salmonella		Absence
STEC E. Col		Absence
Listeria Monocytogenes		Absence

* cfu/g

MYCOTOXINS

	Action Level *	Result *
Aflatoxin B1	20	< LOQ
Aflatoxin B2	20	< LOQ
Aflatoxin G1	20	< LOQ
Aflatoxin G2	20	< LOQ
Ochratoxin A	20	< LOQ

* Parts Per Billion (PPB)

HEAVY METALS

	Action Level *	Result *
Arsenic	1500	< LOQ
Cadmium	500	< LOQ
Lead	500	< LOQ
Mercury	3000	< LOQ

* Parts Per Billion (PPB)

SOLUBILITY

Complete dispersion or dissolution should be accomplished within a few seconds in warm water and in about 30-60 seconds in cold water.

PREPARATION INSTRUCTIONS

- Can be used in dry mixes
- Can be re-hydrated in water

Note: If re-hydrated in water then completely dissolve by shaking, stirring or blending and then add ice, fizz, sweetener, garnish, etc.

TYPICAL USAGE

1-3 servings per day

VEGETARIANS / VEGANS

This product is suitable for vegetarians and vegans. The product does not contain any animal products / derivatives.

QUALITY ASSURANCE

The food safety management at Le Herbe, LLC. is an integral part of our system. We are strongly committed to the HACCP concept and successful implementation.

PACKAGING

Sachet (mylar), stick pack (mylar), plastic jar (BPA-Free), or plastic bag (vacuum sealed). Tamper evident features with desiccant.

STORAGE

Keep packaging unopened in dark, low humidity & cool temperature 55 °F (12 °C).

SHIPPING & HANDLING

Temperature not to exceed 80 °F (26 °C) for consecutive days.

SHELF LIFE

3 year shelf life from date of production under recommended storage, shipping, and handling conditions.

CODING

Product label indicates expiration date, lot number, and/or blend batch.

ALLERGEN STATUS

This product, its raw materials and the processing line on which it was produced do not contain allergens as defined by the Food Allergy Safety, Treatment, Education, and Research Act of 2021 or the FASTER Act of 2021, which include: milk, eggs, fish, crustacean shellfish, tree nuts, wheat, peanuts, soybeans, and sesame.

MANUFACTURED & DISTRIBUTED BY:

Le Herbe, LLC.

COUNTRY OF ORIGIN

United States

PRODUCT APPLICATION

Flavor / Flavour

RESTRICTIONS

- Oral consumption only
- Consult with doctor before use

LEGAL & REGULATORY

Federal (USA):

- Uniform Trade Secrets Act (UTSA)

State (Florida):

- Chapter 688 (UTSA)

Other:

- Flavor Extract Manufacturers Association (FEMA)

THESE STATEMENTS HAVE NOT BEEN EVALUATED BY THE FOOD AND DRUG ADMINISTRATION. THIS PRODUCT IS NOT INTENDED TO DIAGNOSE, TREAT, CURE, OR PREVENT ANY DISEASE.

CAUTION

The user should conduct his/her own experiments to determine the applicability of such information to, or the suitability of any products for your specific use.

DISCLAIMER

The information provided in this technical data sheet (TDS) is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REVISION DATE

October 31, 2023

REVISION NOTE

No information available