

# Purity Matters

**Protonify botanical-based THCa/THC Active Pharmaceutical Ingredients approach 100% purity.**



They are non-synthetic, odorless, tasteless, and contain no residual solvents or impurities – the purest ingredients in the industry. Protonify ingredients form the perfect foundation for producing consistent Consumer Product Grade (CPG) and Pharmaceutical-quality retail products, including beverages and edibles.

## ❖ New Revenue Opportunities

Enhance existing SKUs, and create new differentiated product formulations with our unique set of ingredients delivering higher quality than existing impure distillate oils can. Protonify delivers consistent high potency, taste, and user experience.



**Protonify enables cannabis product formulators and manufacturers to safely and reliably build brand affinity and large-scale automation for consumer packaged goods and bio-pharmaceutical products containing THC and THCa.**

## ❖ Seamless Integration into Manufacturing Processes

Protonify ingredients integrate seamlessly into CPG and Bio-Pharma retail product manufacturing to enable efficiencies across the entire supply chain. You gain accuracy as production batches grow larger; simple quality audits as required by Cannabis regulations; better inventory control; and efficient scaling.



## ❖ Precision Dosage

Protonify ingredients let you precisely measure for active ingredient potency. Meet regulatory compliance including accurate product labeling and packaging, enabling formulation flexibility for existing and new product SKUs. Users can consume cannabis products knowing the exact amount of active ingredients.



## ❖ Ingredient Certainty

“Same ingredient each and every time”. Protonify ingredients are manufactured to GMP/ISO/HACCP standards, enabling seamless integration into traditional product formulation recipes and industrial-scale manufacturing processes.



## ❖ Product Stability

Protonify ingredients display an exceptionally long and stable shelf life without spoiling – THCa isolate, which is approaching 100% purity, to very high purity THC oil (99%+ total cannabinoids and 98%+ total THC).



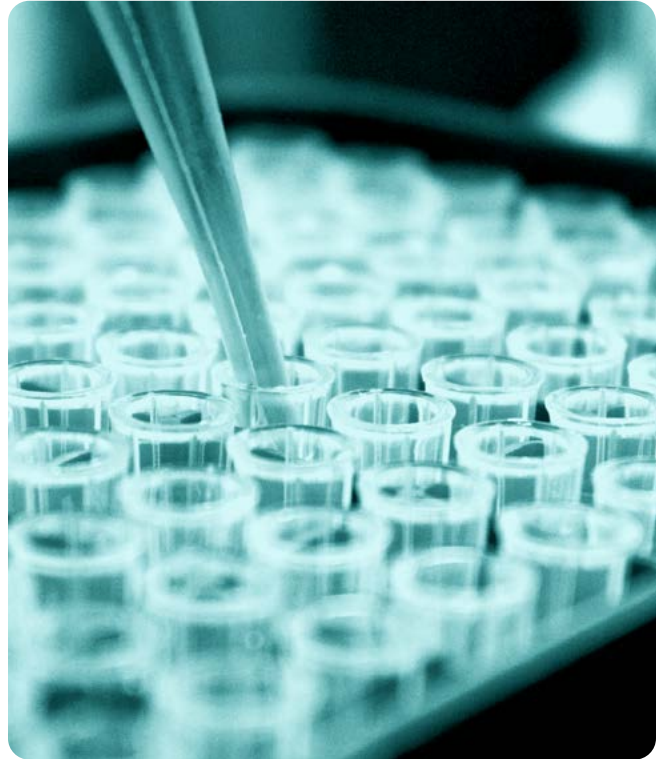
## Bio-Pharmaceutical

Active ingredients used for drug manufacturing must adhere to the strictest standards of purity, consistency, stability, and the highest manufacturing process standards in the world.



Protonify's pure, stable cannabinoid ingredients are perfect for infusion into these potential drugs. The dry good powder format of THCa enables precise dosing and efficient, large-scale drug manufacturing. The purity of Protonify ingredients meet and exceed the global Good Manufacturing Practices for Active Pharmaceutical Ingredients (APIs), allowing the manufacturing of Bio-Pharma-quality products that seamlessly fit into existing high-volume, scalable manufacturing processes and supply chains.

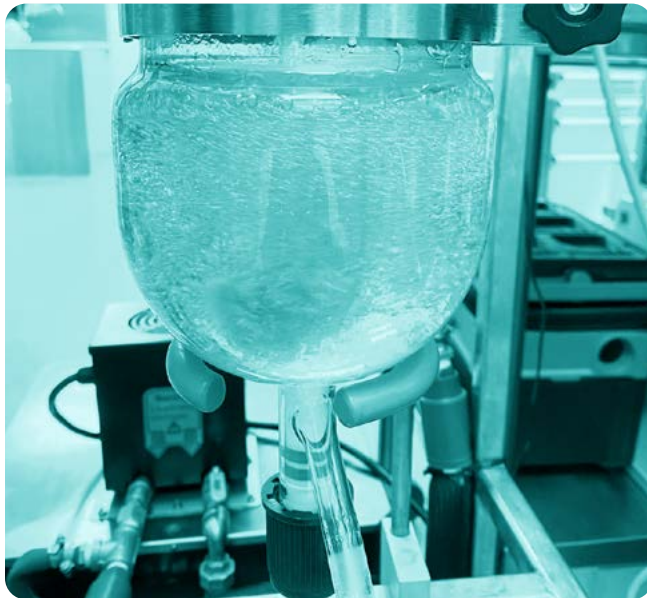
Other THC-based distillate oils contain impurities, mainly polymers, and are inconsistent from batch-to-batch, making them impractical for Bio-Pharmaceutical-grade drug manufacturing.



## About Protonify

Protonify Corporation is a privately-held global producer and distributor of pure biological cannabinoid isolates using patent-pending technology. In addition to producing the world's most shelf-stable cannabinoid isolates, Protonify explores research and development opportunities related to consumer packaged goods, medical and bio-pharma applications of cannabinoid isolates. Protonify is headquartered in Nanoose Bay, British Columbia.





## Testing Standards

	CFU	Per
<b>Microbiological (Eu Ph 5.1.4)</b>		
Yeast & Mold	<10	g
Total Plate Count (aerobic)	<100	g
Salmonella	absent	25 g
E coli	absent	1 g
Staphylococcus aureus	absent	1 g
Pseudomonas aeruginosa	absent	1 g
Bile Tolerant Gram Negative	absent	1 g
<b>Pesticides</b>		
Pesticide Residues		
<b>Health Canada</b>		
Each lot of cannabis flower used as inputs to produce this product have been tested for pesticides and meet the requirements set out in "Mandatory Cannabis Testing for Pesticide Active Ingredients – Requirements", and "Mandatory Cannabis Testing for Pesticide Active Ingredients – List and Limits"		
<b>Heavy Metals (USP 232)</b>		
Arsenic	<0.2	ppm
Cadmium	<0.2	ppm
Lead	<0.5	ppm
Mercury	<0.1	ppm
<b>Mycotoxins (Eu Ph 2.8.18)</b>		
Aflatoxins – B1, B2, G1, G2	<2	ppb total
Sum of Aflatoxins not to exceed	<4	ppb total
Ochratoxin	<20	ppb
<b>Solvents (Eu Ph 2.4.24 &amp; 5.4)</b>		
Ethanol (Class 2)	<5000	ppm
Heptane	<5000	ppm
Methanol	<3000	ppm
<b>Foreign Matter</b>	absent	

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