



**Objective:** Confirm long-term shelf stability of Protonify THCa isolate material for one year at room temperature

- On 18 November 2021, THCa isolate (purity 98.521%, total cannabinoids 99.473% - see COA page 4) was placed into multiple one gram jars and stored for approximately one year at 25 degrees Centigrade dry storage containment to test shelf stability.
- On 26 October 2022, the same five one gram samples were re-tested for THCa, THC and total cannabinoid purity (COAs on pages 5-10).
- Mean variance between 18 Nov 21 and 26 Oct 22 in THCa purity ~1.25%, THC purity 1% and total cannabinoids <1%.

**Purpose:** Report on stability of THCa material stored for 1 year under 25 C dry storage containment.

### Summary

Sample Degradation	Base line	#1	#2	#3	B-#1	B-#2	B-#3	Mean	SD
THCa	0	0.63%	0.36%	1.80%	1.80%	0.74%	2.44%	1.29%	0.0083
Total THC	0	0.64%	1.26%	1.31%	1.31%	0.41%	2.02%	1.16%	0.0057
Total Cannabinoid	0	0.09%	0.85%	1.31%	1.24%	0.43%	1.24%	0.86%	0.0050

### Conclusion

Protonify THCa material packaged and stored in a dry cool place is stable and fit for distribution and utilization of manufacturing Adult and Medical Use Cannabis Packaged Goods.

**Packaging and Labeling Samples:** 1 gram jars of THCa isolate were packaged, labeled and stored for 1 year under 25 C dry storage conditions. Lot PR-0009-10142021 was divided into two lots PR-0009-10142021 & PR-0009-10142021-B.



#### Testing Methodology:

1. Prepare three separate replicates of the same sample, labeled R1, R2, R3 etc.
2. Weigh 100 to 200 mg of sample into a tube and record the weight to 4 decimal places. Zero the tube and contents on the scale. Add 15 ml of methanol, and record the methanol weight.
3. Cap the samples and shake/ vortex until the sample is completely dissolved.
4. Pipette a 1 ml aliquot of each sample into a 2 ml microcentrifuge tube and centrifuge at 1500 rpm for 5 minutes at room temperature.
5. Pipette a 20 microlitre aliquot of the supernatant into 1490 microlitres of 80:20 methanol water into labeled autosampler vials and cap.
6. Vortex for 10 seconds.
7. The samples are now ready for injection into the HPLC.

#### HPLC Conditions:

##### Mobile Phase:

A: LC grade water + 0.1% Formic Acid + 8mM Ammonium Formate

B: LC grade Acetonitrile + 0.1% Formic Acid

Pump Program:

Runtime: 8 min

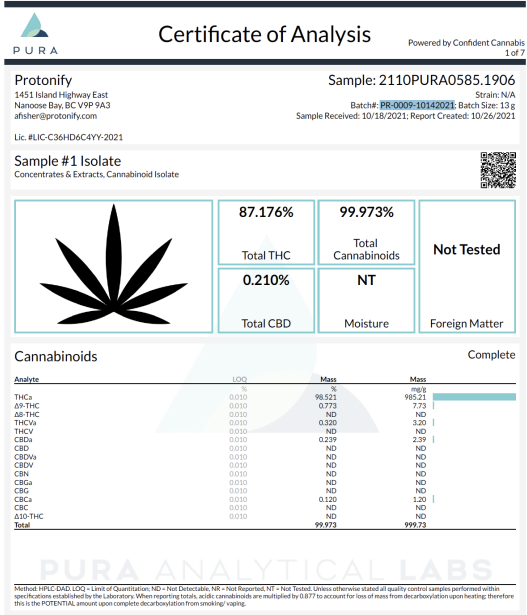
Flow Rate: 1 ml/min, Isocratic

Injection Vol: 10 microlitres  
Column Oven Temp: 40 C  
Autosampler Temp: 20 C  
PDA (photo-diode array) Detector Wavelength: 228nm, Bandwidth 5 nm, Reference 380 nm,  
Reference Bandwidth 5 nm  
Column: C18, 150 x 3.0 mm; 2.6 µm

**Calculations:**

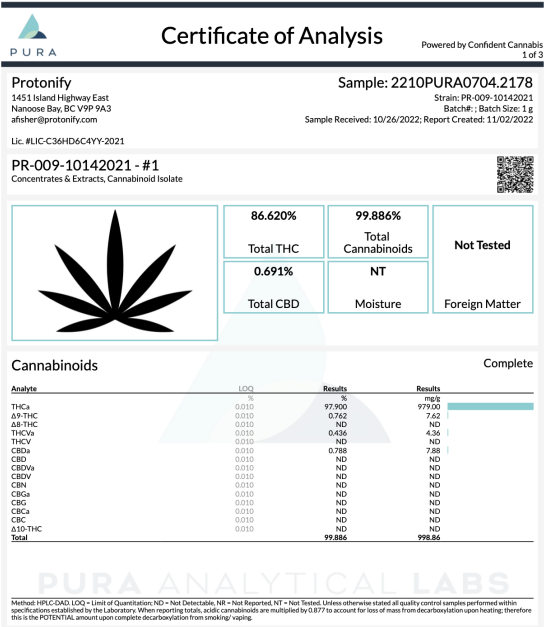
Mass % Cannabinoid in Sample =  $C(\mu\text{g/mL}) \times \text{DF} \times \text{Multiplier (g)}$   
Sample Weight (g) x (Density of Solvent x 10000)  
Where C = Concentration determined from the calibration curve in µg/mL  
DF = dilution factor (in this case 75)  
Multiplier = weight of extraction solvent (methanol)  
Density of Methanol x 10000 = 7920 g/ml  
Target Results of replicates +/- 3% RSD (residual standard deviation).

Supporting Data Set  
 Lot ID: PR-0009-10142021  
 Date Tested: Nov 18, 2021




	Cannabinoid	%
	THCa	98.521%
	D9-THC	0.773%
	Total THC <sup>1</sup>	87.176%
	Total Cannabinoids	99.973%

<sup>1</sup> Health Canada reports Total THC = .877 \* THCa + D9 THC (does **NOT** include D8 or THCV)


Lot ID: PR-0009-10142021 - #1  
 Date Tested: Oct 26, 2022

	Cannabinoid	
	THCa	97.900%
	D9-THC	0.762%
	Total THC	86.620%
	Total Cannabinoids	99.886%
<p><b>Variance from baseline</b></p> <p><b>THCa</b>  <math>98.521 - 97.900 = 0.621</math> (0.63%)</p> <p><b>Total THC</b>  <math>87.176 - 86.62 = 0.556</math> (0.64%)</p> <p><b>Total Cannabinoids</b>  <math>99.973 - 99.886 = 0.087</math> (0.09%)</p>		



Lot ID: PR-0009-10142021 - #2  
 Date Tested: Oct 26, 2022

Certificate of Analysis	Cannabinoid																																																																					
 <p><b>Certificate of Analysis</b> <small>Powered by Confident Cannabis 1 of 3</small></p> <p><b>Protonify</b> <span style="float: right;">Sample: 2210PURA0704.2179</span>                      1451 Island Highway East <span style="float: right;">Strain: PR-009-10142021</span>                      Nanosole Bay, BC V9P 9A3 <span style="float: right;">Batch #: Batch Spec: 3.8</span>                      afisher@protonify.com <span style="float: right;">Sample Received: 10/26/2022; Report Created: 11/02/2022</span></p> <p>Lic: #LIC-C36HD6C4YY-2021</p> <p>PR-009-10142021 - #2 <span style="float: right;"></span>                      Concentrates &amp; Extracts, Cannabinoid Isolate</p>	THCa	98.167%																																																																				
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<p><b>Variance from baseline</b></p> <p><b>THCa</b>                      98.521 - 98.167 = 0.354 (0.04%)</p> <p><b>Total THC</b>                      87.176 - 86.092 = 0.556 (1.84%)</p> <p><b>Total Cannabinoids</b>                      99.973 - 99.129 = 0.844 (0.85%)</p> <p><b>Note: presence of other minors not reported as D9 THC.</b></p>																																																																						

Lot ID: PR-0009-10142021 - #3  
 Date Tested: Oct 26, 2022



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<p><b>Protonify</b> Sample: 2210PURA0704.2180                      1451 Island Highway East Strain: PR-009-10142021                      Nanoose Bay, BC V9P 9A3 Batch#: ; Batch Size: 1 g                      afisher@protonify.com Sample Received: 10/26/2022; Report Created: 11/02/2022</p> <p>Lic. #LIC-C36HD6C4YY-2021</p> <p>PR-009-10142021 - #3                      Concentrates &amp; Extracts, Cannabinoid Isolate</p>	THCa	96.780%																																																																																
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<p><b>Variance from baseline</b></p> <p>THCa                      98.521 - 96.780 = 1.741 (1.80%)</p> <p>Total THC                      87.176 - 86.047 = 1.129 (1.31%)</p> <p>Total Cannabinoids                      99.973 - 98.680 = 1.293 (1.31%)</p>																																																																																		

Lot ID: PR-0009-10142021-B - #1  
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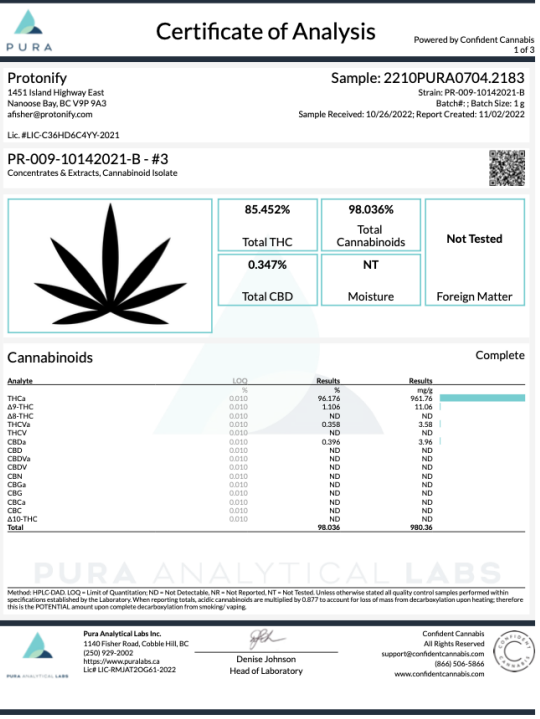
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CBDa	0.010	ND	ND																																																																											
CBDV	0.010	ND	ND																																																																											
CBN	0.010	ND	ND																																																																											
CBGa	0.010	ND	ND																																																																											
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CBC	0.010	ND	ND																																																																											
CBCa	0.010	ND	ND																																																																											
Δ11-THC	0.010	ND	ND																																																																											
Total	0.010	98.753	98.753																																																																											



Lot ID: PR-0009-10142021-B - #2  
 Date Tested: Oct 26, 2022

Certificate of Analysis	Cannabinoid																																																																								
 <p><b>Protonify</b>                      1451 Island Highway East                      Nanose Bay, BC V9P 9A3                      afisher@protonify.com                      Lic. #LIC-C36HD6C4YY-2021</p>	<b>THCa</b>	<b>97.801%</b>																																																																							
<p>Sample: 2210PURA0704.2182                      Strain: PR-009-10142021-B                      Batch#: : Batch Size: 1g                      Sample Received: 10/26/2022; Report Created: 11/02/2022</p>	<b>D9-THC</b>	<b>1.048%</b>																																																																							
<p>PR-009-10142021-B - #2                      Concentrates &amp; Extracts, Cannabinoid Isolate</p>	<b>Total THC</b>	<b>86.819%</b>																																																																							
 <table border="1" data-bbox="446 693 763 808"> <tr> <td>86.819%</td> <td>99.545%</td> <td rowspan="3">Not Tested</td> </tr> <tr> <td>Total THC</td> <td>Total Cannabinoids</td> </tr> <tr> <td>0.350%</td> <td>NT</td> </tr> <tr> <td>Total CBD</td> <td>Moisture</td> <td>Foreign Matter</td> </tr> </table>	86.819%	99.545%	Not Tested	Total THC	Total Cannabinoids	0.350%	NT	Total CBD	Moisture	Foreign Matter	<b>Total Cannabinoids</b>	<b>99.545%</b>																																																													
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<p><b>Cannabinoids</b> Complete</p> <table border="1" data-bbox="227 871 763 1039"> <thead> <tr> <th>Analyte</th> <th>LOQ</th> <th>Result</th> <th>Result</th> </tr> <tr> <th></th> <th>%</th> <th>%</th> <th>mg/g</th> </tr> </thead> <tbody> <tr><td>THCa</td><td>0.050</td><td>97.801</td><td>978.01</td></tr> <tr><td>Δ9-THC</td><td>0.050</td><td>1.048</td><td>10.48</td></tr> <tr><td>Δ8-THC</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>THCVa</td><td>0.050</td><td>0.237</td><td>2.37</td></tr> <tr><td>THCV</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>CBDa</td><td>0.050</td><td>0.399</td><td>3.99</td></tr> <tr><td>CBD</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>CBDVa</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>CBDV</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>CBN</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>CBCa</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>CBC</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>CBCa</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>CBC</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>Δ10-THC</td><td>0.050</td><td>ND</td><td>ND</td></tr> <tr><td>Total</td><td></td><td>99.545</td><td>995.45</td></tr> </tbody> </table> <p><b>PURA ANALYTICAL LABS</b></p> <p>Method: HPLC-DAD; LOQ = Limit of Quantitation; ND = Not Detectable; NR = Not Reported; NT = Not Tested. Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. When reporting totals, acidic cannabinoids are multiplied by 0.877 to account for loss of mass from decarboxylation upon heating; therefore this is the POTENTIAL amount upon complete decarboxylation from smoking/vaping.</p>	Analyte	LOQ	Result	Result		%	%	mg/g	THCa	0.050	97.801	978.01	Δ9-THC	0.050	1.048	10.48	Δ8-THC	0.050	ND	ND	THCVa	0.050	0.237	2.37	THCV	0.050	ND	ND	CBDa	0.050	0.399	3.99	CBD	0.050	ND	ND	CBDVa	0.050	ND	ND	CBDV	0.050	ND	ND	CBN	0.050	ND	ND	CBCa	0.050	ND	ND	CBC	0.050	ND	ND	CBCa	0.050	ND	ND	CBC	0.050	ND	ND	Δ10-THC	0.050	ND	ND	Total		99.545	995.45	<p><b>Variance from baseline</b></p> <p><b>THCa</b>                      98.521 - 97.801 = 0.720 (0.74%)</p> <p><b>Total THC</b>                      87.176 - 86.819 = 0.357 (0.41%)</p> <p><b>Total Cannabinoids</b>                      99.973 - 99.545 = 0.428 (0.43%)</p>
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<p>Pura Analytical Labs Inc.                      1140 Folger Road, Cobble Hill, BC                      (250) 929-2002  <a href="https://www.puralabs.ca">https://www.puralabs.ca</a>                      Lic# LIC-8KJATZDGG1-2022</p> <p>Denise Johnson                      Head of Laboratory</p> <p>Confident Cannabis                      All Rights Reserved                      support@confidentcannabis.com                      (866) 506-5866  <a href="http://www.confidentcannabis.com">www.confidentcannabis.com</a></p>																																																																									

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	Cannabinoid	
	THCa	96.176%
	D9-THC	1.106%
	Total THC	85.452%
	Total Cannabinoids	98.036%
<p><b>Variance from baseline</b></p>		
<p><b>THCa</b>  <math>98.521 - 97.801 = 0.720</math> (0.74%)</p>		
<p><b>Total THC</b>  <math>87.176 - 85.452 = 1.724</math> (2.02%)</p>		
<p><b>Total Cannabinoids</b>  <math>99.973 - 98.753 = 1.22</math> (1.24%)</p>		

Protonify Corporation is a privately-held Canadian licensed global B2B manufacturer of highest-purity, CPG-grade cannabinoid isolates. Protonify's botanically-sourced cannabinoids are non-synthetic with purity approaching 100%. Available in several formats, including dry powder and nano-encapsulated, they fit seamlessly into traditional CPG formulation recipes, industrial scale production lines and supply chains and are the perfect foundation to enable cannabis product formulators and manufacturers to safely and reliably build brand affinity for consumer packaged goods containing THC and THCa. Manufacturing of Protonify ingredients strictly follow Good Manufacturing Practices (GMP) for extracted products, aligning with existing GMP / ISO / HACCP standards and are the foundation for the next generation of Cannabis 3.0 high purity products including Infused pre-rolls, beverages, vapes, edibles, sublingual strips and tablets.

<https://www.protonify.com>

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