



DOC-GUIDE-1027-THCStabilityReport

Last Modified: April 17, 2023

Version: 1.0.1

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## DOC-GUIDE-1027-THCStabilityReport

**Introduction:** Cannabis and its derivatives have gained widespread popularity in recent years, primarily due to their medicinal and recreational properties. Among these derivatives, tetrahydrocannabinol (THC) is the main psychoactive component responsible for the plant's effects on the human body. However, THC is a highly reactive molecule and is susceptible to degradation when exposed to various environmental factors, including heat, light, and humidity. Therefore, it is essential to study the stability of THC to ensure its potency over time, especially in storage conditions where it may be subjected to these factors.

**Objective:** In this THC stability study, we aimed to investigate the effect of storage conditions on the stability of high purity THC samples. The samples were kept in three different storage conditions, namely cool, dry, and room temperature, to mimic real-world storage conditions. To evaluate the stability of THC, we used the official certificate of analysis dates and results for the samples as the benchmark. The certificate of analysis provided information on the potency, and composition of the samples at the time of manufacture.

By analyzing the samples at regular intervals, we can track changes in the potency of THC over time and assess the impact of storage conditions on the stability of the samples. This study is crucial in determining the optimal storage conditions for THC to maintain its potency, which is essential for its efficacy in medicinal and recreational applications. The results of this study will provide valuable insights into the stability of THC and help guide storage recommendations for its safe and effective use.

To calculate potency loss over a specific time frame, you would need to know the initial concentration of the substance and the concentration at the end of the time frame. The formula used to calculate potency loss is:

Potency Loss (%) = [(Initial Concentration - Final Concentration) / Initial Concentration] x 100

Potency Loss (%) (PL) can be calculated using the formula:

$$PL (\%) = \frac{(IC - FC)}{IC} \times 100$$
 Where IC = Initial Concentration, FC = Final Concentration

This formula expresses potency loss as a percentage of the initial concentration.

**Conclusion:** The acceptable loss for an active pharmaceutical ingredient (API) over a given time frame will depend on various factors, such as the nature of the API, its intended use, and the requirements of regulatory authorities in the applicable jurisdictions.

In general, the acceptable loss for an API will be determined through stability testing, which involves subjecting the API to various environmental conditions over time and monitoring its degradation. The results of the stability testing will be used to establish a shelf-life for the API, which represents the time period during which the API is expected to remain within acceptable quality limits under specified storage conditions. Significant change, for a drug product is defined as: A 5% change in assay from its initial value; or failure to meet the acceptance criteria for potency when using biological or immunological procedures;

Protonify high potency Delta 9 THC manufactured in a controlled environment and stored in cool / dry conditions has a **retest date of 12 months.**

### Summary Data

| CONDITIONS        |   |
|-------------------|---|
| Humidity:         | 60% (+- 5%)   |
| Temperature:      | 20-25C (+- 2%)                                      |
| Lighting:         | Dark / protected from light                         |
| Airflow:          | Continuous flow and refresh of air                  |
| SAMPLE #1         |   |
| LOT ID:           | Immediate Container - Luer Lock Syringe (18 Months) |
| 8BK-001-F1-AC-DCB |   |

|                                | Initial   | Final      |
|--------------------------------|---|------------|
| Dates                          | 07/08/2021  | 04/10/2023 |
| D9 THC %                       | 93.651%   | 89.614%    |
| Potency Loss (%)               | 4.037%  |            |
| Summary                        | Less than 5% degradation of D9 THC after 18 months          |            |
| <b>SAMPLE 2</b>                |   |            |
| LOT ID:<br>FL-220228-01-01-DCB | Immediate Container - Luer Lock Syringe (12 Months)         |            |
|                                | Start   | End        |
| Dates                          | 03/22/2022  | 04/10/2023 |
| D9 THC %                       | 96.319%   | 92.997%    |
| Summary                        | Less than 5% (3.322%) degradation of D9 THC after 12 months |            |
| <b>SAMPLE 3</b>                |   |            |
| LOT ID:<br>PR-0016-03232022    | Immediate Container - Amber Glass (12 Months)               |            |
|                                | Start   | End        |
| Dates                          | 03/24/2022  | 04/10/2023 |
| D9 THC %                       | 94.239%   | 90.546%    |
| Summary                        | Less than 5% (3.639%) degradation of D9 THC after 12 months |            |



**Protonify**  
Better Everyday

DOC-GUIDE-1027-THCStabilityReport

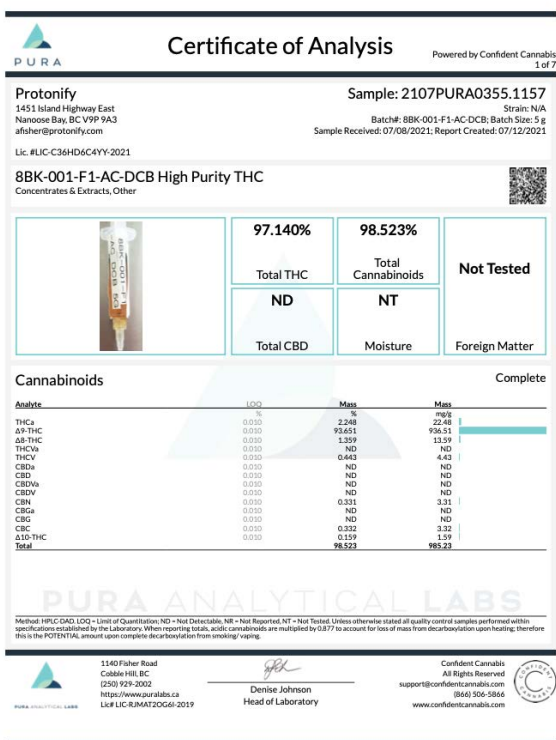
Last Modified: April 17, 2023

Version: 1.0.1

| <b>LOT ID:</b><br><b>PR-0017-03232022</b> | <b>Immediate Container - Amber Glass (12 Months)</b>               |                   |
|---|--|-------------------|
|   | <b>Start</b>   | <b>End</b>        |
| <b>Dates</b>                              | <b>03/22/2022</b>  | <b>04/10/2023</b> |
| <b>D9 THC %</b>                           | <b>89.452%</b>   | <b>88.256%</b>    |
| <b>Summary</b>                            | <b>Less than 5% (1.196%) degradation of D9 THC after 12 months</b> |                   |
|   |  |                   |

Appendix A - Detailed Analysis

### 8BK-001-F1-AC-DCB - 07/08/2021




**Certificate of Analysis**  
 Sample: 2107PURA0355.1157  
 Strain: N/A  
 Batch#: 8BK-001-F1-AC-DCB; Batch Size: 5 g  
 Sample Received: 07/08/2021; Report Created: 07/12/2021

**97.140%** Total THC  
**98.523%** Total Cannabinoids  
**Not Tested** Foreign Matter

**ND** Total CBD  
**NT** Moisture

| Analyte | LOQ   | %      | mg/g   |
|---------|-------|--------|--------|
| THCa    | 0.010 | 2.248  | 22.48  |
| D9-THC  | 0.010 | 93.651 | 936.51 |
| D8-THC  | 0.010 | 1.359  | 13.59  |
| THCv    | 0.010 | ND     | ND     |
| THCv    | 0.010 | 0.443  | 4.43   |
| CBDa    | 0.010 | ND     | ND     |
| CBD     | 0.010 | ND     | ND     |
| CBDv    | 0.010 | ND     | ND     |
| CBN     | 0.010 | 0.331  | 3.31   |
| CBNa    | 0.010 | ND     | ND     |
| CBC     | 0.010 | 0.332  | 3.32   |
| D10-THC | 0.010 | 0.159  | 1.59   |
| Total   |       | 98.523 | 985.23 |

### 8BK-001-F1-AC-DCB - 04/10/2023



**Certificate of Analysis**  
 Sample: 2304PURA0217.0639  
 Strain: N/A  
 Batch#: ; Batch Size: 1 g  
 Sample Received: 04/10/2023; Report Created: 04/12/2023

**92.795%** Total THC  
**94.411%** Total Cannabinoids  
**Not Tested** Foreign Matter

**ND** Total CBD  
**NT** Moisture

| Analyte | LOQ   | Results | Results |
|---------|-------|---------|---------|
|         |       | %       | mg/g    |
| D10-THC | 0.010 | ND      | ND      |
| D9-THC  | 0.010 | 89.614  | 896.14  |
| D8-THC  | 0.010 | 1.541   | 15.41   |
| THCa    | 0.010 | 1.870   | 18.70   |
| CBD     | 0.010 | ND      | ND      |
| CBDa    | 0.010 | ND      | ND      |
| CBDv    | 0.010 | ND      | ND      |
| CBC     | 0.010 | ND      | ND      |
| CBCa    | 0.010 | ND      | ND      |
| THCv    | 0.010 | 0.450   | 4.50    |
| THCv    | 0.010 | 0.583   | 5.83    |
| CBN     | 0.010 | ND      | ND      |
| CBNa    | 0.010 | ND      | ND      |
| CBL     | 0.010 | ND      | ND      |
| CBC     | 0.010 | ND      | ND      |
| CBCa    | 0.010 | 0.353   | 3.53    |
| Total   |       | 94.411  | 944.11  |


| 8BK-001-F1-AC-DCB | 07/08/2021 | 04/10/2023 | Elapsed Years | 1.756164384         |
|-------------------|------------|------------|---------------|---------------------|
|                   | %          | mg/g       |               | Potency Loss / Gain |
| THCa              | 2.248%     | 22.48      | 1.870%        | 0.378%              |
| D9 THC            | 93.651%    | 936.51     | 89.614%       | 4.037%              |
| D8 THC            | 1.359%     | 13.59      | 1.540%        | -0.181%             |
| CBN               | 0.331%     | 3.31       | 0.583%        | -0.252%             |
| CBC               | 0.332%     | 3.32       | 0.000%        | 0.332%              |
| D10 THC           | 0.159%     | 1.59       | 0.000%        | 0.159%              |
| THCv              | 0.443%     | 4.43       | 0.450%        | -0.007%             |
| CBD               | 0.000%     | 0          | 0.000%        | 0.000%              |
| CBCa              | 0.000%     | 0          | 0.353%        | -0.353%             |


FL-220228-01-01-DCB - 03/22/2022

**Certificate of Analysis** Powered by Confident Cannabis 1 of 2

**Protonify** 1451 Island Highway East Nanose Bay, BC V9P 9A3 afisher@protonify.com **Sample: 2203PURA0177.0648** Strain: N/A Batch#: ; Batch Size: 6.8 g Sample Received: 03/22/2022; Report Created: 03/23/2022

Lic: #LIC-C36HD6C4YV-2021

FL-220228-01-01-DCB   
Concentrates & Extracts, Distillate

|   |           |                    |                |
|---|-----------|--------------------|----------------|
|  | 98.218%   | 99.054%            | Not Tested     |
|   | Total THC | Total Cannabinoids |                |
|   | ND        | NT                 |                |
|   | Total CBD | Moisture           | Foreign Matter |

**Cannabinoids** Complete

| Analyte      | LOQ   | Mass          | Mass          |
|--------------|-------|---------------|---------------|
|              | %     | %             | mg/g          |
| THCa         | 0.010 | 2.165         | 21.65         |
| Δ9-THC       | 0.010 | 962.19        | 962.19        |
| Δ8-THC       | 0.010 | ND            | ND            |
| THCVa        | 0.010 | ND            | ND            |
| THCV         | 0.010 | 0.570         | 5.70          |
| CBGa         | 0.010 | ND            | ND            |
| CBDa         | 0.010 | ND            | ND            |
| CBDVa        | 0.010 | ND            | ND            |
| CBDA         | 0.010 | ND            | ND            |
| CBG          | 0.010 | ND            | ND            |
| CBGa         | 0.010 | ND            | ND            |
| CBG          | 0.010 | ND            | ND            |
| CBGa         | 0.010 | ND            | ND            |
| CBG          | 0.010 | ND            | ND            |
| Δ10-THC      | 0.010 | ND            | ND            |
| <b>Total</b> |       | <b>99.054</b> | <b>990.54</b> |

**PURA ANALYTICAL LABS**

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 total, 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.

**PURA ANALYTICAL LABS** 1140 Fisher Road Cobble Hill BC (250) 929-2002 https://www.puranalabs.ca Lic# LIC-3MAT20G6-2019

**Denise Johnson** Head of Laboratory

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FL-220228-01-01-DCB - 04/10/2023

**Certificate of Analysis** Powered by Confident Cannabis 1 of 3

**Protonify** 1451 Island Highway East Nanose Bay, BC V9P 9A3 afisher@protonify.com **Sample: 2304PURA0217.0640** Strain: N/A Batch#: ; Batch Size: 1 g Sample Received: 04/10/2023; Report Created: 04/12/2023

Lic: #LIC-C36HD6C4YV-2021

FL-220228-01-01-DCB   
Concentrates & Extracts, Distillate

|  |           |                    |                |
|--|-----------|--------------------|----------------|
|  | 94.301%   | 94.729%            | Not Tested     |
|  | Total THC | Total Cannabinoids |                |
|  | ND        | NT                 |                |
|  | Total CBD | Moisture           | Foreign Matter |

**Cannabinoids** Complete

| Analyte      | LOQ   | Results       | Results       |
|--------------|-------|---------------|---------------|
|              | %     | %             | mg/g          |
| Δ10-THC      | 0.010 | ND            | ND            |
| Δ9-THC       | 0.010 | 92.977        | 929.97        |
| Δ8-THC       | 0.010 | ND            | ND            |
| THCa         | 0.010 | 1.487         | 14.87         |
| CBD          | 0.010 | ND            | ND            |
| CBDa         | 0.010 | ND            | ND            |
| CBDVa        | 0.010 | ND            | ND            |
| CBG          | 0.010 | ND            | ND            |
| CBGa         | 0.010 | ND            | ND            |
| CBG          | 0.010 | ND            | ND            |
| CBGa         | 0.010 | ND            | ND            |
| THCV         | 0.010 | ND            | ND            |
| THCVa        | 0.010 | ND            | ND            |
| CBN          | 0.010 | 0.245         | 2.45          |
| CBNa         | 0.010 | ND            | ND            |
| CBL          | 0.010 | ND            | ND            |
| CBLa         | 0.010 | ND            | ND            |
| <b>Total</b> |       | <b>94.729</b> | <b>947.29</b> |

**PURA ANALYTICAL LABS**

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**PURA ANALYTICAL LABS** Unit 1, 2984 Boys Road, DUNCAN, BC (250) 929-2002 https://www.puranalabs.ca Lic# LIC-LEHSCQYVW-2022

**Denise Johnson** Head of Laboratory

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This product has been tested by Pura Analytical Laboratories using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Pura Analytical Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate should not be reproduced except in full, without the written approval of Pura Analytical Laboratories. Results are representative of the sample submitted by the client on the stated date.



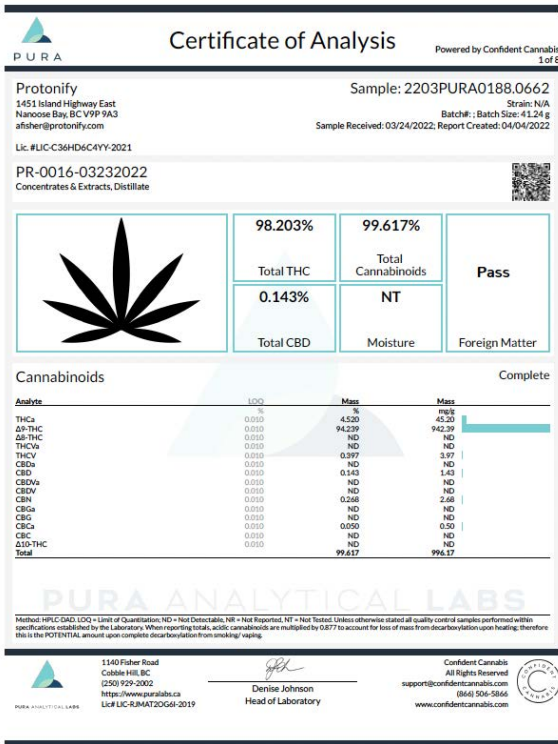
DOC-GUIDE-1027-THCStabilityReport

Last Modified: April 17, 2023

Version: 1.0.1

| FL-220228-01-01-DCB | 03/22/2022 |        | 04/10/2023 |        | Elapsed Years | 1.052054795         |
|---------------------|------------|--------|------------|--------|---------------|---------------------|
|                     | %          | mg/g   | %          | mg/g   |               | Potency Loss / Gain |
| THCa                | 2.165%     | 21.65  | 1.487%     | 14.87  |               | 0.678%              |
| D9 THC              | 96.319%    | 963.19 | 92.997%    | 929.97 |               | 3.322%              |
| D8 THC              | 0.000%     | 0      | 1.49%      | 14.87  |               | -1.487%             |
| CBN                 | 0.268%     | 2.68   | 0.25%      | 2.45   |               | 0.023%              |
| CBC                 | 0.000%     | 0      | 0          | 0      |               | 0.000%              |
| D10 THC             | 0.000%     | 0      | 0          | 0      |               | 0.000%              |
| THCv                | 0.570%     | 5.7    | 0          | 0      |               | 0.570%              |
| CBD                 | 0.000%     | 0      | 0          | 0      |               | 0.000%              |
| CBCa                | 0.000%     | 0      | 0          | 0      |               | 0.000%              |

PR-0016-03232022 - 07/08/2021




**Certificate of Analysis** Powered by Confident Cannabis 1 of 8

Protonify  
1451 Island Highway East  
Nanose Bay, BC V9P 9A3  
afisher@protonify.com  
Lic: #LIC-C36HD6C4Y-2021

Sample: 2203PURA0188.0662  
Strain: N/A  
Batch#: 1; Batch Size: 41.24 g  
Sample Received: 03/24/2022; Report Created: 04/04/2022

PR-0016-03232022  
Concentrates & Extracts, Distillate

|  |                             |                                      |             |
|--|-----------------------------|--------------------------------------|-------------|
|  | <b>98.203%</b><br>Total THC | <b>99.617%</b><br>Total Cannabinoids | <b>Pass</b> |
|  | <b>0.143%</b><br>Total CBD  | <b>NT</b><br>Moisture                |             |

**Cannabinoids** Complete

| Analyte | LOQ   | Mass %        | Mass mg/g     |
|---------|-------|---------------|---------------|
| THCa    | 0.050 | 4.520         | 45.20         |
| Δ9-THC  | 0.050 | 94.239        | 942.39        |
| Δ8-THC  | 0.050 | ND            | ND            |
| THCv    | 0.050 | ND            | ND            |
| THCv    | 0.050 | 0.397         | 3.97          |
| CBDa    | 0.050 | ND            | ND            |
| CBD     | 0.050 | 0.143         | 1.43          |
| CBDv    | 0.050 | ND            | ND            |
| CBN     | 0.050 | 0.068         | 0.68          |
| CBCa    | 0.050 | ND            | ND            |
| CBC     | 0.050 | 0.050         | 0.50          |
| Δ10-THC | 0.050 | ND            | ND            |
| Total   |       | <b>99.617</b> | <b>996.17</b> |

**PURA ANALYTICAL LABS**

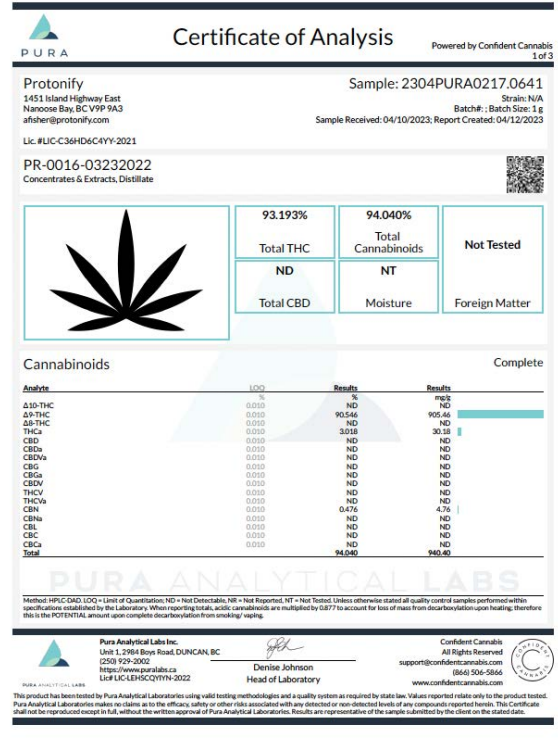
Method: HPLC-DAD; LOQ = Limit of Quantification; ND = Not Detectable; NR = Not Reported; NT = Not Tested. Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. When reporting total, acidic cannabinoids are multiplied by 0.877 to account for loss of mass from decarboxylation upon heating; therefore this is the POTENTIAL amount upon complete decarboxylation from smoking/vaping.

1140 Fisher Road  
Cobble Hill, BC  
(250) 929-2002  
https://www.puralabs.ca  
LIC# LIC-RJMAT20G6-2019

Denise Johnson  
Head of Laboratory

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support@confidentcannabis.com  
(866) 506-5866  
www.confidentcannabis.com

PR-0016-03232022 - 04/10/2023




**Certificate of Analysis** Powered by Confident Cannabis 1 of 3

Protonify  
1451 Island Highway East  
Nanose Bay, BC V9P 9A3  
afisher@protonify.com  
Lic: #LIC-C36HD6C4Y-2021

Sample: 2304PURA0217.0641  
Strain: N/A  
Batch#: 1; Batch Size: 1 g  
Sample Received: 04/10/2023; Report Created: 04/12/2023

PR-0016-03232022  
Concentrates & Extracts, Distillate

|   |                             |                                      |                   |
|---|-----------------------------|--------------------------------------|-------------------|
|  | <b>93.193%</b><br>Total THC | <b>94.040%</b><br>Total Cannabinoids | <b>Not Tested</b> |
|   | <b>ND</b><br>Total CBD      | <b>NT</b><br>Moisture                |                   |

**Cannabinoids** Complete

| Analyte | LOQ   | Results %     | Results mg/g  |
|---------|-------|---------------|---------------|
| Δ10-THC | 0.050 | ND            | ND            |
| Δ9-THC  | 0.050 | 93.194        | 935.46        |
| Δ8-THC  | 0.050 | ND            | ND            |
| THCa    | 0.050 | 3.018         | 30.18         |
| CBD     | 0.050 | ND            | ND            |
| CBDa    | 0.050 | ND            | ND            |
| CBDv    | 0.050 | ND            | ND            |
| CBG     | 0.050 | ND            | ND            |
| CBGa    | 0.050 | ND            | ND            |
| CBGv    | 0.050 | ND            | ND            |
| THCv    | 0.050 | ND            | ND            |
| THCv    | 0.050 | 0.476         | 4.76          |
| CBN     | 0.050 | ND            | ND            |
| CBNa    | 0.050 | 0.476         | 4.76          |
| CBC     | 0.050 | ND            | ND            |
| CBCa    | 0.050 | ND            | ND            |
| Total   |       | <b>94.040</b> | <b>940.40</b> |

**PURA ANALYTICAL LABS**

Method: HPLC-DAD; LOQ = Limit of Quantification; 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 total, 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.

Pura Analytical Labs Inc.  
Unit 1, 2964 Boys Road, DUNCAN, BC  
(250) 929-2002  
https://www.puralabs.ca  
LIC# LIC-LEHSC07YIN-2022

Denise Johnson  
Head of Laboratory

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support@confidentcannabis.com  
(866) 506-5866  
www.confidentcannabis.com

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| PR-0016-03232022 | 03/22/2022 | mg/g   | 04/10/2023 | mg/g   | Elapsed Years | 1.052054795         |
|------------------|------------|--------|------------|--------|---------------|---------------------|
|                  | %          |        | %          |        |               | Potency Loss / Gain |
| THCa             | 4.520%     | 45.2   | 3.018%     | 30.18  |               | 1.502%              |
| D9 THC           | 94.239%    | 942.39 | 90.546%    | 905.46 |               | 3.693%              |
| D8 THC           | 0.000%     | 0      | 0.00%      | 0      |               | 0.000%              |
| CBN              | 0.000%     | 0      | 0.476%     | 4.76   |               | -0.476%             |
| CBC              | 0.000%     | 0      | 0          | 0      |               | 0.000%              |
| D10 THC          | 0.000%     | 0      | 0          | 0      |               | 0.000%              |
| THCv             | 0.397%     | 3.97   | 0          | 0      |               | 0.397%              |
| CBD              | 0.143%     | 1.43   | 0          | 0      |               | 0.143%              |
| CBCa             | 0.050%     | 0.5    | 0          | 0      |               | 0.050%              |




PR-0017-03232022 - 03/29/2021

**Certificate of Analysis** Powered by Confident Cannabis 1 of 8

Protonify Sample: 2203PURA0198.0687 Strain: N/A  
 1451 Island Highway East Nanoose Bay, BC V9P 9A3 Batch#: ; Batch Size: 33 g  
 aftsh@protonify.com Sample Received: 03/29/2022; Report Created: 04/08/2022

Lic: #LIC-C36HD6C4YY-2021  
 PR-0017-03272022  
 Concentrates & Extracts, Distillate



|                             |                                      |                       |
|-----------------------------|--------------------------------------|-----------------------|
| <b>97.943%</b><br>Total THC | <b>99.828%</b><br>Total Cannabinoids | <b>Pass</b>           |
| <b>0.115%</b><br>Total CBD  | <b>NT</b><br>Moisture                |                       |
|                             |                                      | <b>Foreign Matter</b> |

**Cannabinoids Complete**

| Analyte              | LOQ   | %             | mg/g          |
|----------------------|-------|---------------|---------------|
| THCa                 | 0.010 | 9.682         | 96.82         |
| Δ <sup>9</sup> -THC  | 0.010 | 89.452        | 894.52        |
| Δ <sup>8</sup> -THC  | 0.010 | ND            | ND            |
| THCv                 | 0.010 | ND            | ND            |
| THCv                 | 0.010 | 0.443         | 4.43          |
| CBDa                 | 0.010 | ND            | ND            |
| CBD                  | 0.010 | 0.115         | 1.15          |
| CBDa                 | 0.010 | ND            | ND            |
| CBDv                 | 0.010 | ND            | ND            |
| CBSa                 | 0.010 | 0.136         | 1.36          |
| CBSa                 | 0.010 | ND            | ND            |
| CBSv                 | 0.010 | ND            | ND            |
| CBC                  | 0.010 | ND            | ND            |
| CBCa                 | 0.010 | ND            | ND            |
| CBCv                 | 0.010 | ND            | ND            |
| Δ <sup>10</sup> -THC | 0.010 | ND            | ND            |
| Total                |       | <b>99.828</b> | <b>998.28</b> |

**PURA ANALYTICAL LABS**

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 total, 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.

1140 Fisher Road Cobble Hill, BC (250) 929-2002 https://www.purabls.ca Lic# LIC-RJMATZ068-2019

Denise Johnson Head of Laboratory


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PR-0017-03232022 - 04/10/2023

**Certificate of Analysis** Powered by Confident Cannabis 1 of 8

Protonify Sample: 2304PURA0217.0642 Strain: N/A  
 1451 Island Highway East Nanoose Bay, BC V9P 9A3 Batch#: ; Batch Size: 1 g  
 aftsh@protonify.com Sample Received: 04/10/2023; Report Created: 04/12/2023

Lic: #LIC-C36HD6C4YY-2021  
 PR-0017-03232022  
 Concentrates & Extracts, Distillate



|                             |                                      |                       |
|-----------------------------|--------------------------------------|-----------------------|
| <b>95.509%</b><br>Total THC | <b>97.581%</b><br>Total Cannabinoids | <b>Not Tested</b>     |
| <b>ND</b><br>Total CBD      | <b>NT</b><br>Moisture                |                       |
|                             |                                      | <b>Foreign Matter</b> |

**Cannabinoids Complete**

| Analyte             | LOQ   | Results       | Results       |
|---------------------|-------|---------------|---------------|
| Δ <sup>9</sup> -THC | 0.010 | ND            | ND            |
| Δ <sup>8</sup> -THC | 0.010 | 88.256        | 882.56        |
| THCa                | 0.010 | 82.70         | 82.70         |
| CBDa                | 0.010 | ND            | ND            |
| CBDv                | 0.010 | ND            | ND            |
| CBSa                | 0.010 | 0.418         | 4.18          |
| CBSv                | 0.010 | ND            | ND            |
| CBC                 | 0.010 | ND            | ND            |
| CBCa                | 0.010 | 0.057         | 0.57          |
| CBCv                | 0.010 | ND            | ND            |
| Total               |       | <b>97.581</b> | <b>975.81</b> |

**PURA ANALYTICAL LABS**

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 total, 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.

Pura Analytical Labs Inc. Unit 1, 2884 Boye Road, DUNCAN, BC (250) 929-2002 https://www.purabls.ca Lic# LIC-LEHSCVYH-2022

Denise Johnson Head of Laboratory

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| PR-0017-03232022 | 03/22/2022 |        | 04/10/2023 |        | Elapsed Years | 1.052054795         |
|------------------|------------|--------|------------|--------|---------------|---------------------|
|                  | %          | mg/g   | %          | mg/g   |               | Potency Loss / Gain |
| THCa             | 9.682%     | 96.82  | 8.270%     | 82.7   |               | 1.412%              |
| D9 THC           | 89.452%    | 894.52 | 88.256%    | 882.56 |               | 1.196%              |
| D8 THC           | 0.000%     | 0      | 0.00%      | 0      |               | 0.000%              |
| CBN              | 0.136%     | 1.36   | 0.64%      | 6.37   |               | -0.501%             |
| CBC              | 0.000%     | 0      | 0          | 0      |               | 0.000%              |
| D10 THC          | 0.000%     | 0      | 0          | 0      |               | 0.000%              |
| THCv             | 0.443%     | 4.43   | 0.42%      | 4.18   |               | 0.025%              |
| CBD              | 0.115%     | 1.15   | 0          | 0      |               | 0.115%              |
| CBCa             | 0.000%     | 0      | 0          | 0      |               | 0.000%              |



DOC-GUIDE-1027-THCStabilityReport

Last Modified: April 17, 2023

Version: 1.0.1

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## About Protonify

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 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>

[info@protonify.com](mailto:info@protonify.com)

+1(647)-360-8422

Protonify Corporation  
1451 Island Highway East  
Nanoose Bay  
British Columbia  
Canada, V9P 9A3