

# Product Manufacturing Specifications

High-purity cannabinoid input materials for licensed manufacturers

Protonify Corporation · Nanoose Bay, British Columbia, Canada · Health Canada licensed processor

**Version 1.0.1** · Issued 9 August 2026

PURITY MATTERS

## Grades

| Property                        | Coating grade<br>THCa isolate · SKU-1001 | Infusion grade<br>THCa isolate · SKU-1025 | Liquid Diamonds<br>THC extract · SKU-1015              |
|---------------------------------|------------------------------------------|-------------------------------------------|--------------------------------------------------------|
| <b>Product form</b>             | THCa isolate — dry crystalline powder    | THCa isolate — dry crystalline powder     | THC extract — high-viscosity liquid                    |
| <b>Appearance</b>               | White                                    | Yellow to light orange                    | Light yellow                                           |
| <b>Scent</b>                    | Faint acid                               | Faint cannabis                            | Faint cannabis                                         |
| <b>Particle size</b>            | 20 µm – 0.5 mm                           | 20 µm – 0.5 mm                            | —                                                      |
| <b>THCA</b>                     | ≥ 960 mg/g (96.0%)                       | ≥ 960 mg/g (96.0%)                        | — (decarboxylated)                                     |
| <b>Δ9-THC</b>                   | ≤ 10 mg/g                                | ≤ 10 mg/g                                 | ≥ 950 mg/g (95.0%)                                     |
| <b>Total THC</b>                | ≥ 842 mg/g                               | ≥ 842 mg/g                                | ≥ 950 mg/g                                             |
| <b>Minor cannabinoids</b>       | Total ≤ 20 mg/g, predominantly THCv      | Retained by design — CBD, CBNa, Δ9        | CBC, CBC, THCv                                         |
| <b>Δ8-THC</b>                   | 0 mg/g                                   | 0 mg/g                                    | —                                                      |
| <b>Carrier / additives</b>      | None                                     | None                                      | None                                                   |
| <b>Cultivar</b>                 | Agnostic                                 | Agnostic                                  | Agnostic                                               |
| <b>Net weight per container</b> | 950 – 1,050 g                            | 950 – 1,050 g                             | 475 – 525 g or 950 – 1,050 g                           |
| <b>Intended use</b>             | Inhalation                               | Inhalation                                | Inhalation or ingestion                                |
| <b>Primary container</b>        | FDA-grade plastic, PP cap, PE foam liner | FDA-grade plastic, PP cap, PE foam liner  | Stainless vault or amber glass, leakproof and airtight |
| <b>Storage</b>                  | Cool and dry, out of direct sunlight     | Cool and dry, out of direct sunlight      | Cool and dry, out of direct sunlight                   |

Figures are specification minima. Reported values carry a standard analytical uncertainty of ±2%. Total THC is derived:  $\Delta 9\text{-THC} + (\text{THCA} \times 0.877)$ . Coating and infusion grade are the same molecule to different specifications — infusion retains its minor cannabinoids deliberately, which is what gives it colour and a broader profile.

## Release specification

Every lot is released against this panel and issued with a Certificate of Analysis.

| Test                                       | Limit                                                                  | Method                             |
|--------------------------------------------|------------------------------------------------------------------------|------------------------------------|
| <b>Cannabinoid profile</b>                 | THC, THCA, Total THC, CBD, CBDA, Total CBD, CBG, CBGA reported as mg/g | HPLC-DAD                           |
| <b>Pesticides</b>                          | Absent — limits per Health Canada for cannabis concentrate             | LC-MS/MS dual ion source           |
| <b>Aflatoxin B1</b>                        | < 2 ppb                                                                | LC-MS/MS ESI, Ph. Eur. 2.8.22      |
| <b>Total aflatoxins B1 B2 G1 G2</b>        | < 4 ppb                                                                | Ph. Eur. 2.8.18 / USP <561>        |
| <b>Ochratoxin A</b>                        | < 20 ppb                                                               | LC-MS/MS ESI, Ph. Eur. 2.8.22      |
| <b>Total aerobic microbial count</b>       | < 200 cfu/g inhalation; < 50,000 cfu/g ingestion                       | Ph. Eur. 2.6.12 / USP <61>         |
| <b>Yeast and mould</b>                     | < 20 cfu/g inhalation; < 500 cfu/g ingestion                           | Ph. Eur. 2.6.12 / USP <61>         |
| <b>Bile-tolerant Gram-negative</b>         | Absent in 1 g inhalation; < 100 cfu/g ingestion                        | Ph. Eur. 2.6.13 / USP <62>         |
| <b>Escherichia coli</b>                    | Absent in 1 g                                                          | Ph. Eur. 2.6.13 / USP <62>         |
| <b>Salmonella spp.</b>                     | Absent in 25 g                                                         | Ph. Eur. 2.6.13 / USP <62>         |
| <b>Staphylococcus aureus</b>               | Absent in 1 g                                                          | Ph. Eur. 2.6.31 / USP <62>         |
| <b>Pseudomonas aeruginosa</b>              | Absent in 1 g                                                          | Ph. Eur. 2.6.31 / USP <62>         |
| <b>Residual solvents — ICH Q3C Class 3</b> | < 5,000 ppm                                                            | GC-FID, USP <467>                  |
| <b>Residual solvents — ICH Q3C Class 2</b> | < 3,000 ppm                                                            | GC-FID, USP <467>                  |
| <b>Arsenic</b>                             | < 0.2 ppm                                                              | ICP-MS, USP <232>, Ph. Eur. 2.4.20 |
| <b>Cadmium</b>                             | < 0.3 ppm                                                              | ICP-MS, USP <232>, Ph. Eur. 2.4.20 |
| <b>Lead</b>                                | < 0.5 ppm                                                              | ICP-MS, USP <232>, Ph. Eur. 2.4.20 |

| Test    | Limit     | Method                             |
|---------|-----------|------------------------------------|
| Mercury | < 0.1 ppm | ICP-MS, USP <232>, Ph. Eur. 2.4.20 |

## Compliance

| Statement                        | Position                                                                                                                                                      |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Good Production Practices</b> | Guaranteed. See the manufacturing guarantee below.                                                                                                            |
| <b>Country of origin</b>         | Produced and manufactured in Canada, consistent with the criteria of the Canada Border Services Agency and the Canadian Food Inspection Agency.               |
| <b>Allergens</b>                 | No listed allergen is present in the product, in other products on the same line, or in the manufacturing plant. Cross-contamination procedures are in place. |
| <b>GMO</b>                       | Non-GMO. Botanically sourced; produced without genetic engineering.                                                                                           |
| <b>Irradiation</b>               | No irradiated source material and no irradiation step in the process.                                                                                         |
| <b>Caffeine</b>                  | Never brought into the production environment.                                                                                                                |
| <b>Organic</b>                   | Not certified organic. Produced without synthetic pesticides, herbicides or GMOs.                                                                             |
| <b>Halal and Kosher</b>          | Not certified Halal. Not certified Kosher.                                                                                                                    |
| <b>Vegan and vegetarian</b>      | Both. No animal products or by-products, and no animal testing.                                                                                               |
| <b>BSE / TSE</b>                 | Free from Bovine Spongiform Encephalopathy and Transmissible Spongiform Encephalopathies.                                                                     |
| <b>Shelf life and retest</b>     | Stable for at least 12 months. Retest recommended nine months after the date of the last Certificate of Analysis.                                             |
| <b>Primary packaging</b>         | FDA / food-grade, compliant with Division 23 of the Food and Drugs Act and Regulations, section B.23.001.                                                     |
| <b>Solvents used</b>             | Heptane, ethanol and isopropyl alcohol (ICH Q3C Class 3) and methanol (Class 2). No carrier or additive remains in the finished material.                     |
| <b>Change control</b>            | The customer Quality Assurance Person is notified of any change to facility, process, ingredients, packaging or third-party certification before shipping.    |

**Released with every shipment.** Manifest recording container and box unique IDs, tare, gross and net weights and the purchase-order reference · Certificate of Manufacture · Certificate of Analysis · signable Chain of Custody · Safety Data Sheet · source-biomass pesticide checklist.

**MANUFACTURING GUARANTEE** Protonify Corporation hereby guarantees that the cannabis contained in all released-for-sale batches is produced in compliance with Health Canada standards for **Good Production Practices (GPP)** under the **Cannabis Regulations (SOR/2018-144)**.

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