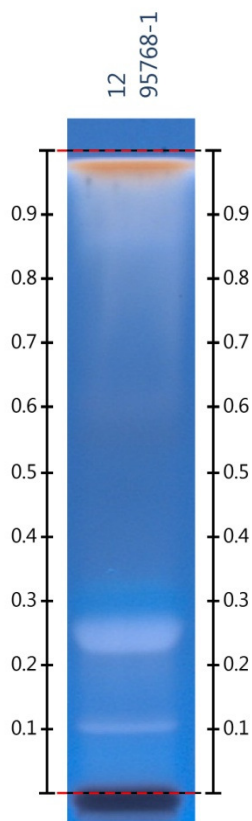


**Certificate of Analysis -- RFF ROYAL TINCTURE**  
High Performance Thin-Layer Chromatography

Date 2021-02-04



|                      |   |
|----------------------|---|
| LMID                 | 95768-1   |
| Result               |   |
| Client               | <b>RAW Forest Foods LLC</b>   |
| Sample Name          | <b>Royal Pine Pollen Tincture</b>   |
| Plant Part           | Unknown   |
| Physical Description | <b>Liquid</b>   |
| Lot Number           | 13158   |
| Reference Sample     |   |
| Instrument           | CAMAG Automatic HPTLC System (E-TLC1)<br>AST4 211118<br>ADC2 211247<br>Visualizer 211521<br>DXA252 726763614        |
| Sample Prep          | 3.0 g in 10 mL MeOH, sonicate it for 10 mins and store at room temperature overnight.                               |
| Reference Prep       | 3.0 mg in 20 mL MeOH, sonicate it for 10 mins and store at room temperature overnight.                              |
| Stationary Phase     | Silica gel 60, F <sub>254</sub> , HPTLC plates  |
| Mobile Phase         | Ethyl acetate: Acetic acid: Water = 300: 50: 50   |
| Visualization        | (1) UV 366 nm   |
| Reference            | Method developed by Labs-Mart Inc., Edmonton  |
| Conclusion           | Lane 1 (4 µL) is the test sample <b>RFF ROYAL</b> . <u>The image shown is the finger printing for the RFF ROYAL</u> |
| Analyst              | MK  |
| Quality Control      | gk 20210204   |
|                      |   |
|                      |   |



**REPORT # 95768-1 REV 1**

**To** RAW Forest Foods LLC  
11 Elmwood Ave, Ste. 102  
Burlington, VT 05402  
T (802) 349-1347

**Date** 3/9/2021  
**Received** 2021/02/03  
**Notes** revised lots

**RFF ROYAL; Lot# 13358 (95768-1)**

| Test                    | Specification | Test Result | Method    | Analyst | Date       | Loc. |
|-------------------------|---------------|-------------|-----------|---------|------------|------|
| Total Plate Count       | <10,000 CFU/g | <10 CFU/g   | SOP 6_503 | DDS     | 2021/02/09 | AB   |
| Yeast & Mold            | <1,000 CFU/g  | <10 CFU/g   | SOP 6_503 | DDS     | 2021/02/09 | AB   |
| Salmonella              | Negative      | Negative    | SOP 6_503 | DDS     | 2021/02/09 | AB   |
| E. coli                 | Negative      | Negative    | SOP 6_503 | DDS     | 2021/02/09 | AB   |
| S. aureus               | Negative      | Negative    | SOP 6_503 | DDS     | 2021/02/09 | AB   |
| P. aeruginosa           | Negative      | Negative    | SOP 6_503 | DDS     | 2021/02/09 | AB   |
| Coliforms               | <10 CFU/g     | <10 CFU/g   | MFHPB-34  | DDS     | 2021/02/09 | AB   |
| Arsenic                 | <1.5 ug/g     | <0.030 ug/g | ICP-MS    | MRA     | 2021/02/10 | AB   |
| Cadmium                 | <0.5 ug/g     | <0.020 ug/g | ICP-MS    | MRA     | 2021/02/10 | AB   |
| Lead                    | <1.0 ug/g     | <0.020 ug/g | ICP-MS    | MRA     | 2021/02/10 | AB   |
| Mercury                 | <0.2 ug/g     | <0.020 ug/g | ICP-MS    | MRA     | 2021/02/10 | AB   |
| Chemical Fingerprinting | Establish     | Establish   | USP (TLC) | MK      | 2021/02/04 | AB   |

**References**

Microbials: E. coli; modified from USP <2021/2022>, Suitability testing is not performed  
Microbials: P. aeruginosa; modified from USP <61/62>, Suitability testing is not performed  
Microbials: S. aureus; modified from USP <2021/2022>, Suitability testing is not performed  
Microbials: Salmonella; modified from USP <2021/2022>, Suitability testing is not performed  
Microbials: Total Plate Count; modified from USP <2021/2022>, Suitability testing is not performed  
Microbials: Yeast & Mold; modified from USP <2021/2022>, Suitability testing is not performed

**Labs-Mart Testing Locations:**

AB - 1938 94 Street, Edmonton, AB, Canada

Prepared by



Chantelle Gaboury, Account Manager

Approved by



Gagandeep Kangarh, QC Specialist

Date

2021/03/09