

**SAMPLE NAME: Hydrate Lotion**

Infused, Hemp

**CULTIVATOR / MANUFACTURER**
**Business Name:**
**License Number:**
**Address:**
**DISTRIBUTOR / TESTED FOR**
**Business Name:** North Star Hemp

**License Number:**
**Address:**
**SAMPLE DETAIL**
**Batch Number:** NSH0010200240

**Sample ID:** 240528R026

**Date Collected:** 05/28/2024

**Date Received:** 05/28/2024

**Batch Size:**
**Sample Size:** 1.0 units

**Unit Mass:** 118 grams per Unit

**Serving Size:**


Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**
**Total THC: 24.308 mg/unit**
**Total CBD: 1826.876 mg/unit**
**Sum of Cannabinoids: 1888.236 mg/unit**
**Total Cannabinoids: 1888.236 mg/unit**

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

$$\text{Total THC} = \Delta^9\text{-THC} + (\text{THCa} \cdot 0.877)$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} \cdot 0.877)$$

$$\text{Sum of Cannabinoids} = \Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} +$$

$$\text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$

$$\text{Total Cannabinoids} = (\Delta^9\text{-THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) +$$

$$(\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) +$$

$$(\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

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 Job Title: Senior Laboratory Analyst  
 Date: 05/29/2024

*Josh Wurzer*  
 Approved by: Josh Wurzer  
 Job Title: Chief Compliance Officer  
 Date: 05/29/2024




## Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

**Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

**TOTAL THC: 24.308 mg/unit**

Total THC ( $\Delta^9$ -THC+0.877\*THCa)

**TOTAL CBD: 1826.876 mg/unit**

Total CBD (CBD+0.877\*CBDA)

**TOTAL CANNABINOIDS: 1888.236 mg/unit**

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta^8$ -THC + CBL + CBN

**TOTAL CBG: ND**

Total CBG (CBG+0.877\*CBGa)

**TOTAL THCV: ND**

Total THCV (THCV+0.877\*THCVa)

**TOTAL CBC: 24.426 mg/unit**

Total CBC (CBC+0.877\*CBCa)

**TOTAL CBDV: 5.664 mg/unit**

Total CBDV (CBDV+0.877\*CBDVa)

**CANNABINOID TEST RESULTS - 05/29/2024**

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±0.5775	15.482	1.5482
CBC	0.003 / 0.010	±0.0067	0.207	0.0207
$\Delta^9$ -THC	0.002 / 0.014	±0.0113	0.206	0.0206
CBN	0.001 / 0.007	±0.0017	0.059	0.0059
CBDV	0.002 / 0.012	±0.0020	0.048	0.0048
$\Delta^8$ -THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002 / 0.012	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDA	0.001 / 0.026	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBG	0.002 / 0.006	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBL	0.003 / 0.010	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			<b>16.002 mg/g</b>	<b>1.6002%</b>

**Unit Mass: 118 grams per Unit**

$\Delta^9$ -THC per Unit	24.308 mg/unit
Total THC per Unit	24.308 mg/unit
CBD per Unit	1826.876 mg/unit
Total CBD per Unit	1826.876 mg/unit
Sum of Cannabinoids per Unit	1888.236 mg/unit
Total Cannabinoids per Unit	1888.236 mg/unit