



**Nine Mile Brewing**

Test Report, Caffeine Determination

Legend No: 2500191 Ver. 00

Submitted by:

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# LEGEND

Technical Services, Inc.

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January 31, 2025

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9555 James Ave. South #290  
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Subject: TEST REPORT: Caffeine Determination  
Legend No: 2500191

## 1.0 INTRODUCTION

LEGEND TECHNICAL SERVICES, INC. (LEGEND) received one sample from a representative of Nine Mile Brewing on January 13<sup>th</sup>, 2025. LEGEND was requested to determine the level of caffeine within the submitted sample.

## 2.0 COMPLIANCE

The general conduct of this study incorporated quality practices which were in accordance with LEGEND's ISO 17025:2017 accreditation.

## 3.0 TEST ARTICLES

LEGEND No.	Sample Identification
2500191-04	Thrive Spotlight Infused Seltzer, Replicate #1
2500191-05	Thrive Spotlight Infused Seltzer, Replicate #2

## 4.0 TEST EQUIPMENT & CONTROL ARTICLES

4.1 Caffeine, >98%, Alfa Aesar P/N

4.2 Waters Acquity H Class BIO UPLC, with eλ Photo Diode Array (PDA) Detector, LEGEND LTS# CO-109

## 5.0 TEST FACILITY

LEGEND Technical Services, Inc.  
88 Empire Drive  
St. Paul, MN 55103

## 6.0 METHODOLOGY

2 milliliters of the sample was combined with 1 milliliter of acetonitrile in a 15 milliliter poly tube, capped and shaken. A portion of the diluted sample was then transferred to an autosampler vial and analyzed liquid chromatography ultraviolet spectroscopy (UPLC/UV). Two replicates of the sample were prepared and each replicate prepared in duplicate. The analysis conditions are listed below.

- Column: Waters Acquity BEH C18
- Mobile Phase: Isocratic Deionized Water/Acetonitrile 95/5
- Detection: UV @ 274 nm
- Calibration: Multipoint, Caffeine, external standard
- Column Temp: 30°C
- Flow Rate: 0.50 mL/minute
- Injection Volume: 1 microliter

**7.0 RESULTS & DISCUSSION**

The results are summarized below and are reported in milligrams per milliliter (mg/mL) and milligrams per can (mg/can), based on a 12 ounce can.

Sample Identification (LEGEND No.)	Caffeine	
	mg/mL	mg/can
Thrive Spotlight Infused Seltzer, Replicate #1, (2500191-01)	0.168	59.7
Thrive Spotlight Infused Seltzer, Replicate #1, (2500191-01 DUP)	0.167	59.3
Thrive Spotlight Infused Seltzer, Replicate #2, (2500191-02)	0.166	58.9
Thrive Spotlight Infused Seltzer, Replicate #2, (2500191-02 DUP)	0.166	58.9

mg/mL = milligrams per milliliter

mg/can = milligrams per can (based on a 12 oz can)

**8.0 RECORDS**

**8.1** The original raw data and a copy of the final report are archived at LEGEND for a minimum of five years.

**8.2** The unconsumed sample will be retained by LEGEND for 30 days from the date of this report and then discarded unless further instructions are received from the sponsor.

**9.0 REMARKS**

This report shall not be reproduced except in full, without the written authorization of LEGEND TECHNICAL SERVICES, INC.

**10.0 REVISION HISTORY**

Version 00. Initial Release