

# Mountain Oak Vapors

231 American Dr. NE  
Cleveland, TN 37323-5184

Carbonyl Assay  
Samples Received 09/15/2014

Product Name  
*Heavenly 7*

Analysis Report  
(0914-118R)

GC/MS Analysis For  
Diacetyl  
2,3-Pentanedione (aka: Acetyl propionyl)



**Enthalpy Analytical, Inc.**

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800-1 Capitola Drive Durham, NC 27713-4385



Company:	Mountain Oak Vapors
Sample Condition:	Samples received in good condition.
Notes:	Chain of custody verified.

Method / Parameter	Analyte(s)
GC/MS Analysis	Diacetyl
	2,3-Pentanedione <i>(aka: Acetyl propionyl)</i>

**Summary of Method:**

A measured volume of sample is combined with a volume of acetonitrile. A known amount of internal standard (Butanedione-d6) is added and the vial is capped and mixed thoroughly to combine. An aliquot is then analyzed quantitatively against a linear calibration curve using a GC/MS equipped with a mass selective detector. In this analysis, the limit of quantitation (LOQ) is 8.27 ug/mL for 'Diacetyl' and 8.53 ug/mL for '2,3-Pentanedione'.

Company	Mountain Oak Vapors	# Samples	1
Analyst	LAH	Sample(s) Received	09/15/2014
Parameters	GC/MS Analysis	Client Project:	SNA
Job #	0914-118		

Enthalpy Code	Sample Name	Client's Sample ID	Diacetyl (ug/mL)	2,3-Pentanedione (ug/mL)
0914-118-24	Heavenly 7		Not Detected above the LOQ	Not Detected above the LOQ

**QC Notes:**

Diacetyl: Not detected above the limit of quantitation (LOQ).  
 2,3-Pentanedione: Not detected above the limit of quantitation (LOQ).

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized.

This analytical report was prepared in Portable Document Format (.PDF) and contains 2 pages.

Report Issued: 10/21/2014



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