

# Fil-R-Up Packaging Solutions

5656 North Sam Houston Parkway, Suite 150  
Houston, TX 77032

Carbonyl Assay  
Samples Received 7/10/15

Product Name  
*Broad Way*

Analysis Report  
(0615-560)

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



**Enthalpy Analytical, Inc.**

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / [www.enthalpy.com](http://www.enthalpy.com)  
800-1 Capitola Drive Durham, NC 27713-4385



Company:	Fil-R-Up Packaging Solutions
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 detection or reporting limit is 1.13 ug/mL for 'Diacetyl' and 2 ug/mL for '2,3-Pentanedione'.

Company	Fil-R-Up Packaging Solutions	# Samples	1
Analyst	JM	Sample(s) Received	7/10/15
Parameters	GC/MS Analysis	Client Project:	1
Job #	0615-560		

Enthalpy Code	Sample Name	Batch No.	Diacetyl (ug/mL)	2,3-Pentanedione (ug/mL)
0615-560-03	Broad Way		Not Detected	Not Detected

**QC Notes:**

'Diacetyl' and '2,3-Pentanedione' results were below the minimum detection limit or not above the reporting limit.

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: 07/31/2015



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