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|---|
| Company: Premium Liquid Labs                          |
| Sample Condition: Samples received in good condition. |
| Notes: Chain of custody verified.                     |

| Method / SOP     | Analytes |
|------------------|----------|
| HPLC/UV / ENT301 | Diacetyl |

**Summary of Method:**

An aliquot of e-Liquid or e-Liquid flavor is derivatized with 2,4-dinitrophenylhydrazine (DNPH). After the derivatization reaction is complete, samples are neutralized with pyridine and analyzed via HPLC/UV.

|   |       |
|---|-------|
| <b>Limit of Quantitation (LOQ), ug/mL</b>   | 2.67  |
| <b>Minimum Detection Limit (MDL), ug/mL</b> | 0.279 |

|                 |                     |                |          |
|-----------------|---------------------|----------------|----------|
| Company         | Premium Liquid Labs | Cert Report #  | 0516-560 |
| Analyst         | BJB                 | # Samples      | 1        |
| Instrument Type | HPLC/UV             | Date Received  | 6/9/15   |
| Project Code    | 0615-520            | Client Project | WBC      |

| Enthalpy Code | Sample Name       | Notes               | Diacetyl (ug/mL) |
|---------------|-------------------|---------------------|------------------|
| 0615-520-08   | Anchorage Fog 6mg | World Best Custards | Not Detected     |

**QC Notes:**

Not Detected: Analytical result was not detected above the Minimum Detection Limit (MDL).

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 1 page. If you have trouble viewing this document's electronic signature, please open in Adobe Acrobat.

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