

# Certificate of Analysis



## Lipid Phenols

Product Description: Feruloyl Coconut Glycerides (FCG33)

Batch #: CO1EF1-Sample1

Serial #: C1001

Mfg Date: 13-May-2015

Exp Date: 13-May-2017

### Specifications:

|                  |                               |    |
|------------------|-------------------------------|----|
| Physical state   | Semi-solid oil (ambient)      | OK |
| Color            | pale yellow to tan            | OK |
| Clarity          | slightly cloudy (when liquid) | OK |
| Odor             | bland neutral                 | OK |
| Volatiles by wt% | negligible                    | OK |

|  | Range         | Measured | meets STD |
|--|---------------|----------|-----------|
| Specific Gravity   | 0.92 - 0.97   | 0.95     | YES       |
| Total Ferulate Concentration (@ 325 nm)<br><i>(Feruloyl Soy Glycerides &amp; Ferulic Acid Ethyl Ester)</i> | 850 - 1200 mM | 1105 mM  | YES       |
| % Ethyl Ferulate   | 28 - 40%      | 36.4%    | YES       |
| % Ferulic Acid   | < 5%          | 0.8%     | YES       |
| % Diferuloyl Glycerol  | < 2 %         | 0.5%     | YES       |
| % Feruloyl & Diferuloyl Monofattyacylglycerols &<br>% Feruloyl Difattyacylglycerol                         | 50-70%        | 62%      | YES       |

*Note: To insure greater homogeneity of the product should it become semi-solid or solid, gently warm to 50 ° C with shaking until the product becomes clear or slightly cloudy.*

Approved for shipping by: \_\_\_\_\_

**Biotechnology Research and Development Corporation**

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