

**Certificate Number:** TCHC214850-1 Final  
**Mr Daniel Bermeo**  
**Terrafertil UK Limited**  
**13 Dorset Street**  
**Floor 6**  
**London, Greater London**  
**W1U 6QT**

**Lab Ref.:** CHC311542  
**Date Analysis Started:** 30/06/2015  
**Country of Origin:** Unspecified  
**Commodity:**  
**Date Reported:** 10/07/2015

**Sample Details:** Desc: 100% Chia Seed - Peru.  
 Date Received: 18/06/2015

| Test                                | Result | Units   | MRL | Rec. % | Method Number | Flag |
|-------------------------------------|--------|---------|-----|--------|---------------|------|
| <b>Mycotoxins</b>                   |        |         |     |        |               |      |
| Aflatoxin B1(recovery corrected)    | <0.5   | µg / kg | -   | 90     | AM/R/999      |      |
| Aflatoxin B2(recovery corrected)    | <0.5   | µg / kg | -   | 93     | AM/R/999      |      |
| Aflatoxin G1(recovery corrected)    | <0.5   | µg / kg | -   | 95     | AM/R/999      |      |
| Aflatoxin G2(recovery corrected)    | <0.5   | µg / kg | -   | 98     | AM/R/999      |      |
| Total Aflatoxin(recovery corrected) | <2     | µg / kg | -   | -      | AM/R/999      |      |
| Ochratoxin A (recovery corrected)   | <0.20  | µg / kg | -   | 72     | AM/R/960      |      |

*Mike Housden*

**Mike Housden**  
**Laboratory Manager - Residues**  
 For and on Behalf of ALS Food and Pharmaceutical

**Disclaimers:**

MRL = UK Maximum Residue Level for Unspecified  
 Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.  
 Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.  
 Unless otherwise stated, all results are expressed on an as received basis.  
 Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.  
 Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.



**Certificate Number:** TCHC214851-1 Final

**Lab Ref.:** CHC311543

**Mr Daniel Bermeo**  
**Terrafertil UK Limited**  
 13 Dorset Street  
 Floor 6  
 London, Greater London  
 W1U 6QT

**Date Analysis Started:** 30/06/2015  
**Country of Origin:** Unspecified  
**Commodity:**
**Date Reported:** 10/07/2015

**Sample Details:** Desc: 100% Chia Seed - Peru.  
 Date Received: 18/06/2015

| Test                                | Result | Units   | MRL | Rec. % | Method Number | Flag |
|-------------------------------------|--------|---------|-----|--------|---------------|------|
| <b>Mycotoxins</b>                   |        |         |     |        |               |      |
| Aflatoxin B1(recovery corrected)    | <0.5   | µg / kg | -   | 90     | AM/R/999      |      |
| Aflatoxin B2(recovery corrected)    | <0.5   | µg / kg | -   | 93     | AM/R/999      |      |
| Aflatoxin G1(recovery corrected)    | <0.5   | µg / kg | -   | 95     | AM/R/999      |      |
| Aflatoxin G2(recovery corrected)    | <0.5   | µg / kg | -   | 98     | AM/R/999      |      |
| Total Aflatoxin(recovery corrected) | <2     | µg / kg | -   | -      | AM/R/999      |      |
| Ochratoxin A (recovery corrected)   | <0.20  | µg / kg | -   | 72     | AM/R/960      |      |



 Mike Housden  
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# TEST CERTIFICATE

Medcalfe Way Bridge Street Chatteris Cambridgeshire PE16 6QZ England Telephone: 01354 695858

**Certificate Number:** TCHC214852-1 Final

**Lab Ref.:** CHC311544

**Mr Daniel Bermeo**  
Terrafertil UK Limited  
13 Dorset Street  
Floor 6  
London, Greater London  
W1U 6QT

**Date Analysis Started:** 30/06/2015  
**Country of Origin:** Unspecified  
**Commodity:**

**Date Reported:** 10/07/2015

**Sample Details:** Desc: 100% Chia Seed - Peru.  
Date Received: 18/06/2015

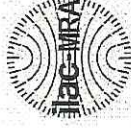
| Test                                | Result | Units    | MRL | Rec. % | Method Number | Flag |
|-------------------------------------|--------|----------|-----|--------|---------------|------|
| <b>Mycotoxins</b>                   |        |          |     |        |               |      |
| Aflatoxin B1(recovery corrected)    | <0.5   | µg / kg. | -   | 90     | AM/R/999      |      |
| Aflatoxin B2(recovery corrected)    | <0.5   | µg / kg  | -   | 93     | AM/R/999      |      |
| Aflatoxin G1(recovery corrected)    | <0.5   | µg / kg  | -   | 95     | AM/R/999      |      |
| Aflatoxin G2(recovery corrected)    | <0.5   | µg / kg  | -   | 98     | AM/R/999      |      |
| Total Aflatoxin(recovery corrected) | <2     | µg / kg  | -   | -      | AM/R/999      |      |
| Ochratoxin A (recovery corrected)   | <0.20  | µg / kg  | -   | 72     | AM/R/960      |      |

**Mike Housden**  
Laboratory Manager - Residues  
For and on Behalf of ALS Food and Pharmaceutical

**Disclaimers:**

**MRL = UK Maximum Residue Level for Unspecified**  
Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.  
Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.  
Unless otherwise stated, all results are expressed on an as received basis.  
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Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.



## TEST CERTIFICATE

Medcalfe Way Bridge Street Chatteris Cambridgeshire PE16 6QZ England  
 Telephone: 01354 695858

**Mr Daniel Bermeo**  
**Terrafertil UK Limited**  
**13 Dorset Street**  
**Floor 6**  
**London, Greater London**  
**W1U 6QT**

**Certificate Number:** TCHC241202-1 Final  
**Date Reported:** 02/10/2015  
**Date Analysis Started:** 30/06/2015  
**Order Number:**

| Lab Ref.  | Sample Details  | Method Number | Test                                   | Result | Units       | Flag |
|-----------|---|---------------|--|--------|-------------|------|
| CHC311542 | Desc: 100% Chia Seed - Peru.<br>Date Received: 18/06/2015 | AM/C/1015     | Moisture (Loss on Drying)              | 7.3    | g / 100g    |      |
|           |   | AM/C/224      | Protein (Nx6.25)                       | 21.7   | g / 100g    |      |
|           |   | AM/C/1015     | Total Fat (NMR)                        | 28.1   | g / 100g    |      |
|           |   | AM/C/803      | Ash                                    | 4.6    | g / 100g    |      |
|           |   | AM/C/901      | Total Carbohydrate (by difference)     | 38.3   | g / 100g    |      |
|           |   | AM/C/309      | Total Dietary Fibre (AOAC)             | 40.5   | g / 100g    |      |
|           |   | AM/C/901      | Available Carbohydrate (by difference) | <0.1   | g / 100g    |      |
|           |   | AM/C/901      | Energy                                 | 421    | kcal / 100g |      |
|           |   | AM/C/901      | Energy                                 | 1733   | kJ / 100g   |      |
|           |   | AM/C/403      | Total Sugars (expressed as Glucose)    | 1.5    | g / 100g    |      |
|           |   | SUB-CON       | Cadmium                                | <0.05  | mg / kg     | S    |
|           |   | SUB-CON       | Lead                                   | <0.05  | mg / kg     | S    |
|           |   | SUB-CON       | Arsenic                                | <0.1   | mg / kg     | S    |
|           |   | AM/C/1002     | Calcium                                | 534    | mg / 100g   |      |
|           |   | AM/C/1002     | Iron                                   | 6.38   | mg / 100g   |      |
|           |   | AM/C/1002     | Potassium                              | 716    | mg / 100g   |      |
|           |   | AM/C/1002     | Magnesium                              | 382    | mg / 100g   |      |
|           |   | AM/C/1002     | Phosphorus                             | 778    | mg / 100g   |      |
|           |   | AM/C/1002     | Sodium (ICP-OES)                       | 1.76   | mg / 100g   |      |
|           |   | SUB-CON       | Mercury                                | <0.003 | mg / kg     | S    |
|           |   | AM/C/107      | FAME C6:0 Caproic Acid (In Fat)        | <0.01  | g / 100g    |      |
|           |   | AM/C/107      | FAME C8:0 Caprylic Acid (In Fat)       | 0.02   | g / 100g    |      |
|           |   | AM/C/107      | FAME C10:0 Capric Acid (In Fat)        | <0.01  | g / 100g    |      |
|           |   | AM/C/107      | FAME C12:0 Lauric Acid (In Fat)        | <0.01  | g / 100g    |      |
|           |   | AM/C/107      | FAME C14:0 Myristic Acid (In Fat)      | 0.05   | g / 100g    |      |
|           |   | AM/C/107      | FAME C14:1 Myristoleic Acid (In Fat)   | <0.01  | g / 100g    |      |
| AM/C/107  | FAME C15:0 Pentadecanoic Acid (In Fat)                    | 0.04          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C16:0 Palmitic Acid (In Fat)                         | 7.47          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C16:1 Palmitoleic Acid (In Fat)                      | 0.28          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C17:0 Heptadecanoic Acid (In Fat)                    | 0.05          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C17:1 Heptadecenoic Acid (In Fat)                    | 0.09          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C18:0 Stearic Acid (In Fat)                          | 3.64          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C18:1 Oleic Acid (In Fat)                            | 7.60          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C18:2 Linoleic Acid (In Fat)                         | 19.73         | g / 100g                               |        |             |      |
| AM/C/107  | FAME C18:3 Linolenic Acid (omega 3) (In Fat)              | 55.30         | g / 100g                               |        |             |      |
| AM/C/107  | FAME C18:3 Linolenic Acid (omega 6) (In Fat)              | 0.09          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C18:4 Octadecatetraenoic Acid (In Fat)               | 0.04          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C20:0 Arachidic Acid (In Fat)                        | 0.33          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C20:1 Gadoleic Acid (In Fat)                         | 0.18          | g / 100g                               |        |             |      |
| AM/C/107  | FAME C20:2 Eicosadienoic Acid (In Fat)                    | 0.10          | g / 100g                               |        |             |      |

| Lab Ref.  | Sample Details                         | Method Number | Test  | Result    | Units                     | Flag |          |  |
|-----------|--|---------------|---|-----------|---------------------------|------|----------|--|
| CHC311542 | Continued from Page 1                  | AM/C/107      | FAME C20:3 Eicosatrienoic Acid (omega 3) (In Fat)         | 0.04      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C20:3 Eicosatrienoic Acid (omega 6) (In Fat)         | 0.01      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C20:4 Arachidonic Acid (omega 3) (In Fat)            | 0.01      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C20:4 Arachidonic Acid (omega 6) (In Fat)            | <0.01     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C20:5 Eicosapentaenoic Acid (In Fat)                 | <0.01     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22:0 Behenic Acid (In Fat)                          | 0.11      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22:1 Ceroleic Acid (In Fat)                         | 0.05      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22:4 Docosatetraenoic Acid (In Fat)                 | 0.10      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22:5 Clupanodonic Acid (In Fat)                     | <0.01     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22:6 Docosahexaenoic Acid (In Fat)                  | 0.09      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C24:0 Lignoceric Acid (In Fat)                       | 0.15      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Saturated Fatty Acids (in sample)                         | 3.33      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Monounsaturated Fatty Acids (in sample)                   | 2.31      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Polyunsaturated Fatty Acids (in sample)                   | 21.22     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Estimated Total Omega 3 (In Fat)                          | 55.49     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Estimated Total Omega 3 (In Sample)                       | 15592     | mg / 100g                 |      |          |  |
|           |  | AM/C/107      | FAME C15:1 Pentadecenoic Acid (In Fat)                    | <0.01     | g / 100g                  |      |          |  |
|           |  | AM/V/710      | Vitamin C (as Ascorbic Acid)                              | 1.02      | mg / 100g                 |      |          |  |
|           |  | AM/V/702      | Vitamin A (Retinol)                                       | <60.0     | µg / 100g                 |      |          |  |
|           |  | AM/V/702      | Vitamin E (as DL-α-tocopherol acetate)                    | 0.33      | mg / 100g                 |      |          |  |
|           |  | CHC311543     | Desc: 100% Chia Seed - Peru.<br>Date Received: 18/06/2015 | AM/C/1015 | Moisture (Loss on Drying) | 7.3  | g / 100g |  |
|           |  |               |   | AM/C/224  | Protein (Nx6.25)          | 21.7 | g / 100g |  |
|           |  |               |   | AM/C/1015 | Total Fat (NMR)           | 28.0 | g / 100g |  |
| AM/C/803  | Ash                                    |               |   | 4.6       | g / 100g                  |      |          |  |
| AM/C/901  | Total Carbohydrate (by difference)     |               |   | 38.4      | g / 100g                  |      |          |  |
| AM/C/309  | Total Dietary Fibre (AOAC)             |               |   | 37.4      | g / 100g                  |      |          |  |
| AM/C/901  | Available Carbohydrate (by difference) |               |   | 1.0       | g / 100g                  |      |          |  |
| AM/C/901  | Energy                                 |               |   | 418       | kcal / 100g               |      |          |  |
| AM/C/901  | Energy                                 |               |   | 1721      | kJ / 100g                 |      |          |  |
| AM/C/403  | Total Sugars (expressed as Glucose)    |               |   | 1.5       | g / 100g                  |      |          |  |
| SUB-CON   | Cadmium                                |               |   | <0.05     | mg / kg                   | S    |          |  |
| SUB-CON   | Lead                                   |               |   | <0.05     | mg / kg                   | S    |          |  |
| SUB-CON   | Arsenic                                |               |   | <0.1      | mg / kg                   | S    |          |  |
| AM/C/1002 | Calcium                                |               |   | 530       | mg / 100g                 |      |          |  |
| AM/C/1002 | Iron                                   |               |   | 6.10      | mg / 100g                 |      |          |  |
| AM/C/1002 | Potassium                              |               |   | 709       | mg / 100g                 |      |          |  |
| AM/C/1002 | Magnesium                              |               |   | 380       | mg / 100g                 |      |          |  |
| AM/C/1002 | Phosphorus                             |               |   | 800       | mg / 100g                 |      |          |  |
| AM/C/1002 | Sodium (ICP-OES)                       |               |   | 3.93      | mg / 100g                 |      |          |  |
| SUB-CON   | Mercury                                |               |   | <0.003    | mg / kg                   | S    |          |  |
| AM/C/107  | FAME C6:0 Caproic Acid (In Fat)        |               |   | <0.01     | g / 100g                  |      |          |  |
| AM/C/107  | FAME C8:0 Caprylic Acid (In Fat)       |               |   | 0.02      | g / 100g                  |      |          |  |
| AM/C/107  | FAME C10:0 Capric Acid (In Fat)        |               |   | <0.01     | g / 100g                  |      |          |  |
| AM/C/107  | FAME C12:0 Lauric Acid (In Fat)        | <0.01         | g / 100g  |           |                           |      |          |  |
| AM/C/107  | FAME C14:0 Myristic Acid (In Fat)      | 0.05          | g / 100g  |           |                           |      |          |  |
| AM/C/107  | FAME C14:1 Myristoleic Acid (In Fat)   | <0.01         | g / 100g  |           |                           |      |          |  |
| AM/C/107  | FAME C15:0 Pentadecanoic Acid (In Fat) | 0.04          | g / 100g  |           |                           |      |          |  |

| Lab Ref.  | Sample Details  | Method Number | Test  | Result | Units     | Flag |
|-----------|---|---------------|---|--------|-----------|------|
| CHC311543 | Continued from Page 2                                     | AM/C/107      | FAME C16.0 Palmitic Acid (In Fat)                 | 7.46   | g / 100g  |      |
|           |   | AM/C/107      | FAME C16.1 Palmitoleic Acid (In Fat)              | 0.29   | g / 100g  |      |
|           |   | AM/C/107      | FAME C17.0 Heptadecanoic Acid (In Fat)            | 0.06   | g / 100g  |      |
|           |   | AM/C/107      | FAME C17.1 Heptadecenoic Acid (In Fat)            | 0.09   | g / 100g  |      |
|           |   | AM/C/107      | FAME C18.0 Stearic Acid (In Fat)                  | 3.62   | g / 100g  |      |
|           |   | AM/C/107      | FAME C18.1 Oleic Acid (In Fat)                    | 7.54   | g / 100g  |      |
|           |   | AM/C/107      | FAME C18.2 Linoleic Acid (In Fat)                 | 19.69  | g / 100g  |      |
|           |   | AM/C/107      | FAME C18.3 Linolenic Acid (omega 3) (In Fat)      | 55.42  | g / 100g  |      |
|           |   | AM/C/107      | FAME C18.3 Linolenic Acid (omega 6) (In Fat)      | 0.09   | g / 100g  |      |
|           |   | AM/C/107      | FAME C18.4 Octadecatetraenoic Acid (In Fat)       | 0.04   | g / 100g  |      |
|           |   | AM/C/107      | FAME C20.0 Arachidic Acid (In Fat)                | 0.33   | g / 100g  |      |
|           |   | AM/C/107      | FAME C20.1 Gadoleic Acid (In Fat)                 | 0.18   | g / 100g  |      |
|           |   | AM/C/107      | FAME C20.2 Eicosa dienic Acid (In Fat)            | 0.10   | g / 100g  |      |
|           |   | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 3) (In Fat) | 0.04   | g / 100g  |      |
|           |   | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 6) (In Fat) | 0.01   | g / 100g  |      |
|           |   | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 3) (In Fat)    | 0.01   | g / 100g  |      |
|           |   | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 6) (In Fat)    | <0.01  | g / 100g  |      |
|           |   | AM/C/107      | FAME C20.5 Eicosapentaenoic Acid (In Fat)         | <0.01  | g / 100g  |      |
|           |   | AM/C/107      | FAME C22.0 Behenic Acid (In Fat)                  | 0.11   | g / 100g  |      |
|           |   | AM/C/107      | FAME C22.1 Ceroleic Acid (In Fat)                 | 0.05   | g / 100g  |      |
|           |   | AM/C/107      | FAME C22.4 Docosatetraenoic Acid (In Fat)         | 0.09   | g / 100g  |      |
|           |   | AM/C/107      | FAME C22.5 Clupanodonic Acid (In Fat)             | <0.01  | g / 100g  |      |
|           |   | AM/C/107      | FAME C22.6 Docosahexaenoic Acid (In Fat)          | 0.09   | g / 100g  |      |
|           |   | AM/C/107      | FAME C24.0 Lignoceric Acid (In Fat)               | 0.15   | g / 100g  |      |
|           |   | AM/C/107      | Saturated Fatty Acids (In sample)                 | 3.31   | g / 100g  |      |
|           |   | AM/C/107      | Monounsaturated Fatty Acids (In sample)           | 2.28   | g / 100g  |      |
|           |   | AM/C/107      | Polyunsaturated Fatty Acids (In sample)           | 21.17  | g / 100g  |      |
|           |   | AM/C/107      | Estimated Total Omega 3 (In Fat)                  | 55.61  | g / 100g  |      |
|           |   | AM/C/107      | Estimated Total Omega 3 (In Sample)               | 15570  | mg / 100g |      |
|           |   | AM/C/107      | FAME C15.1 Pentadecenoic Acid (In Fat)            | <0.01  | g / 100g  |      |
|           |   | AM/V/710      | Vitamin C (as Ascorbic Acid)                      | 1.04   | mg / 100g |      |
|           |   | AM/V/702      | Vitamin A (Retinol)                               | <60.0  | µg / 100g |      |
|           |   | AM/V/702      | Vitamin E (as DL-α-tocopherol acetate)            | 0.33   | mg / 100g |      |
| AM/C/1015 | Moisture (Loss on Drying)                                 | 6.9           | g / 100g  |        |           |      |
| AM/C/224  | Protein (Nx6.25)  | 21.9          | g / 100g  |        |           |      |
| AM/C/1015 | Total Fat (NMR)   | 26.7          | g / 100g  |        |           |      |
| AM/C/803  | Ash   | 4.7           | g / 100g  |        |           |      |
| AM/C/901  | Total Carbohydrate (by difference)                        | 39.8          | g / 100g  |        |           |      |
| AM/C/309  | Total Dietary Fibre (AOAC)                                | 41.7          | g / 100g  |        |           |      |
| AM/C/901  | Available Carbohydrate (by difference)                    | <0.1          | g / 100g  |        |           |      |
| AM/C/901  | Energy  | 411           | kcal / 100g                                       |        |           |      |
| AM/C/901  | Energy  | 1694          | kJ / 100g   |        |           |      |
| AM/C/403  | Total Sugars (expressed as Glucose)                       | 1.6           | g / 100g  |        |           |      |
| SUB-CON   | Cadmium   | <0.05         | mg / kg   | S      |           |      |
| SUB-CON   | Lead  | <0.05         | mg / kg   | S      |           |      |
| CHC311544 | Desc: 100% Chia Seed - Peru.<br>Date Received: 18/06/2015 |               |   |        |           |      |

| Lab Ref.  | Sample Details        | Method Number | Test  | Result | Units     | Flag |
|-----------|-----------------------|---------------|---|--------|-----------|------|
| CHC311544 | Continued from Page 3 | SUB-CON       | Arsenic   | <0.1   | mg / kg   | S    |
|           |                       | AM/C/1002     | Calcium   | 528    | mg / 100g |      |
|           |                       | AM/C/1002     | Iron  | 6.63   | mg / 100g |      |
|           |                       | AM/C/1002     | Potassium   | 708    | mg / 100g |      |
|           |                       | AM/C/1002     | Magnesium   | 380    | mg / 100g |      |
|           |                       | AM/C/1002     | Phosphorus  | 806    | mg / 100g |      |
|           |                       | AM/C/1002     | Sodium (TCP-OES)                                  | 2.26   | mg / 100g |      |
|           |                       | SUB-CON       | Mercury   | <0.003 | mg / kg   | S    |
|           |                       | AM/C/107      | FAME C6.0 Caproic Acid (In Fat)                   | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C8.0 Caprylic Acid (In Fat)                  | 0.02   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C10.0 Capric Acid (In Fat)                   | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C12.0 Lauric Acid (In Fat)                   | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C14.0 Myristic Acid (In Fat)                 | 0.04   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C14.1 Myristoleic Acid (In Fat)              | 0.01   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C15.0 Pentadecanoic Acid (In Fat)            | 0.04   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C16.0 Palmitic Acid (In Fat)                 | 7.43   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C16.1 Palmitoleic Acid (In Fat)              | 0.29   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C17.0 Heptadecanoic Acid (In Fat)            | 0.05   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C17.1 Heptadecenoic Acid (In Fat)            | 0.08   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.0 Stearic Acid (In Fat)                  | 3.67   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.1 Oleic Acid (In Fat)                    | 7.61   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.2 Linoleic Acid (In Fat)                 | 19.45  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.3 Linolenic Acid (omega 3) (In Fat)      | 55.58  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.3 Linolenic Acid (omega 6) (In Fat)      | 0.09   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.4 Octadecatetraenoic Acid (In Fat)       | 0.04   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.0 Arachidic Acid (In Fat)                | 0.33   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.1 Gadoleic Acid (In Fat)                 | 0.17   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.2 Eicosadienoic Acid (In Fat)            | 0.10   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 3) (In Fat) | 0.04   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 6) (In Fat) | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 3) (In Fat)    | 0.02   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 6) (In Fat)    | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.5 Eicosapentaenoic Acid (In Fat)         | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.0 Behenic Acid (In Fat)                  | 0.12   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.1 Cetoleic Acid (In Fat)                 | 0.06   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.4 Docosatetraenoic Acid (In Fat)         | 0.09   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.5 Clupanodonic Acid (In Fat)             | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.6 Docosahexaenoic Acid (In Fat)          | 0.09   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C24.0 Lignoceric Acid (In Fat)               | 0.15   | g / 100g  |      |
|           |                       | AM/C/107      | Saturated Fatty Acids (In sample)                 | 3.17   | g / 100g  |      |
|           |                       | AM/C/107      | Monounsaturated Fatty Acids (In sample)           | 2.19   | g / 100g  |      |
|           |                       | AM/C/107      | Polyunsaturated Fatty Acids (In sample)           | 20.16  | g / 100g  |      |
|           |                       | AM/C/107      | Estimated Total Omega 3 (In Fat)                  | 55.76  | g / 100g  |      |
|           |                       | AM/C/107      | Estimated Total Omega 3 (In Sample)               | 14889  | mg / 100g |      |

| Lab Ref.  | Sample Details        | Method Number | Test                                   | Result | Units     | Flag |
|-----------|-----------------------|---------------|--|--------|-----------|------|
| CHC311544 | Continued from Page 4 | AM/C/107      | FAME C15:1 Pentadecenoic Acid (In Fat) | <0.01  | g / 100g  |      |
|           |                       | AM/V/710      | Vitamin C (as Ascorbic Acid)           | 1.02   | mg / 100g |      |
|           |                       | AM/V/702      | Vitamin A (Retinol)                    | <60.0  | µg / 100g |      |
|           |                       | AM/V/702      | Vitamin E (as DL α-tocopherol acetate) | 0.34   | mg / 100g |      |

The results for saturated, monounsaturated and polyunsaturated fatty acids in the sample use a 0.956 conversion factor for non fatty acid material in the fat.

The values above for the total monounsaturated fatty acids and total polyunsaturated fatty acids are inclusive of both cis and trans components.




Karl Larder

W. Steven Nicholson

Section Head - Nutritional Chemistry

Section Head

For and on Behalf of ALS Food and Pharmaceutical

**Disclaimers:**

The testing results in this certificate relate only to the samples described above. Unless otherwise stated, all results are expressed on an as received basis. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory. 'S' indicates a test which is sub-contracted to an approved laboratory holding ISO 17025 accreditation.







# TEST CERTIFICATE

Medcalfe Way Bridge Street Chatteris, Cambridgeshire PE16 6QZ England Telephone: 01354 695858

Page 1 of 1

Certificate Number: TCHC214847-1 Final

Lab Ref.: CHC311539

Mr Daniel Bermeo  
Terrafertil UK Limited  
13 Dorset Street  
Floor 6  
London, Greater London  
W1U 6QT

Date Analysis Started: 30/06/2015

Country of Origin:  
Commodity: Unspecified

Date Reported: 10/07/2015

Sample Details: Desc: 100% Chia - Ecuador  
Date Received: 18/06/2015

| Test                                | Result | Units   | MRL | Rec. % | Method Number | Flag |
|-------------------------------------|--------|---------|-----|--------|---------------|------|
| <b>Mycotoxins</b>                   |        |         |     |        |               |      |
| Aflatoxin B1(recovery corrected)    | <0.5   | µg / kg | -   | 90     | AM/R/999      |      |
| Aflatoxin B2(recovery corrected)    | <0.5   | µg / kg | -   | 93     | AM/R/999      |      |
| Aflatoxin G1(recovery corrected)    | <0.5   | µg / kg | -   | 95     | AM/R/999      |      |
| Aflatoxin G2(recovery corrected)    | <0.5   | µg / kg | -   | 98     | AM/R/999      |      |
| Total Aflatoxin(recovery corrected) | <2     | µg / kg | -   | -      | AM/R/999      |      |
| Ochratoxin A (recovery corrected)   | <0.20  | µg / kg | -   | 72     | AM/R/960      |      |

Mike Housden

Laboratory Manager - Residues

For and on Behalf of ALS Food and Pharmaceutical

## Disclaimers:

MRL = UK Maximum Residue Level for Unspecified

Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.



**Certificate Number:** TCHC214849-1 Final

**Lab Ref.:** CHC311541

**Mr Daniel Bermeo**  
**Terrafertil UK Limited**  
 13 Dorset Street  
 Floor 6  
 London, Greater London  
 W1U 6QT

**Date Analysis Started:** 30/06/2015  
**Country of Origin:** Unspecified  
**Commodity:** Unspecified

**Date Reported:** 10/07/2015

**Sample Details:** Desc: 100% Chia - Ecuador  
 Date Received: 18/06/2015

| Test                                | Result | Units   | MRL | Rec. % | Method Number | Flag |
|-------------------------------------|--------|---------|-----|--------|---------------|------|
| <b>Mycotoxins</b>                   |        |         |     |        |               |      |
| Aflatoxin B1(recovery corrected)    | <0.5   | µg / kg | -   | 90     | AM/R/999      |      |
| Aflatoxin B2(recovery corrected)    | <0.5   | µg / kg | -   | 93     | AM/R/999      |      |
| Aflatoxin G1(recovery corrected)    | <0.5   | µg / kg | -   | 95     | AM/R/999      |      |
| Aflatoxin G2(recovery corrected)    | <0.5   | µg / kg | -   | 98     | AM/R/999      |      |
| Total Aflatoxin(recovery corrected) | <2     | µg / kg | -   | -      | AM/R/999      |      |
| Ochratoxin A (recovery corrected)   | <0.20  | µg / kg | -   | 72     | AM/R/960      |      |



**Mike Housden**  
 Laboratory Manager - Residues  
 For and on Behalf of ALS Food and Pharmaceutical

**Disclaimers:**

MRL = UK Maximum Residue Level for Unspecified  
 Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.  
 Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.  
 Unless otherwise stated, all results are expressed on an as received basis.  
 Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.  
 Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.





**Food &  
ALS Pharmaceutical**

**TEST CERTIFICATE**

Medcalfe Way Bridge Street Chatteris Cambridgeshire PE16 6QZ England Telephone: 01354 695858

**Certificate Number:** TCHC238380-1 Final

**Lab Ref.:** CHC344814

**Mr Daniel Bermeo  
Terrafertil UK Limited  
13 Dorset Street  
Floor 6  
London, Greater London  
W1U 6QT**

**Date Analysis Started:** 23/09/2015  
**Country of Origin:** Ecuador  
**Commodity:** Unspecified  
**Date Reported:** 01/10/2015

**Sample Details:** Desc: Chia Seeds - Ecuador.  
(Previous Lab Ref: CHC311540; New Sample Re-submitted).  
**Date Received:** 23/09/2015

| Test                                | Result | Units   | MRL | Rec. % | Method Number | Flag |
|-------------------------------------|--------|---------|-----|--------|---------------|------|
| <b>Mycotoxins</b>                   |        |         |     |        |               |      |
| Aflatoxin B1(recovery corrected)    | <0.5   | µg / kg | -   | 93     | AM/R/999      |      |
| Aflatoxin B2(recovery corrected)    | <0.5   | µg / kg | -   | 98     | AM/R/999      |      |
| Aflatoxin G1(recovery corrected)    | <0.5   | µg / kg | -   | 96     | AM/R/999      |      |
| Aflatoxin G2(recovery corrected)    | <0.5   | µg / kg | -   | 99     | AM/R/999      |      |
| Total Aflatoxin(recovery corrected) | <2     | µg / kg | -   | -      | AM/R/999      |      |
| Ochratoxin A (recovery corrected)   | <0.20  | µg / kg | -   | 81     | AM/R/960      |      |

**Jonathan Bruss**  
Section Head  
For and on Behalf of ALS Food and Pharmaceutical

**Disclaimers:**

**MRL = UK Maximum Residue Level for Unspecified**  
Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.  
Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.  
Unless otherwise stated, all results are expressed on an as received basis.  
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.  
Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.





# TEST CERTIFICATE

Medcalfe Way Bridge Street Chatteris Cambridgeshire PE16 6QZ England  
Telephone: 01354 695858

Mr Daniel Bermeo  
Terrafertil UK Limited  
13 Dorset Street  
Floor 6  
London, Greater London  
W1U 6QT

Certificate Number: TCHC241201-1 Final  
Date Reported: 02/10/2015  
Date Analysis Started: 30/06/2015  
Order Number:

| Lab Ref.  | Sample Details   | Method Number | Test   | Result | Units       | Flag |
|-----------|--|---------------|--|--------|-------------|------|
| CHC311539 | Desc: 100% Chia - Ecuador<br>Date Received: 18/06/2015 | AM/C/1015     | Moisture (Loss on Drying)                    | 7.4    | g / 100g    |      |
|           |  | AM/C/224      | Protein (Nx6.25)                             | 23.6   | g / 100g    |      |
|           |  | AM/C/1015     | Total Fat (NMR)                              | 27.8   | g / 100g    |      |
|           |  | AM/C/803      | Ash  | 4.6    | g / 100g    |      |
|           |  | AM/C/901      | Total Carbohydrate (by difference)           | 36.5   | g / 100g    |      |
|           |  | AM/C/309      | Total Dietary Fibre (AOAC)                   | 37.0   | g / 100g    |      |
|           |  | AM/C/901      | Available Carbohydrate (by difference)       | <0.1   | g / 100g    |      |
|           |  | AM/C/901      | Energy                                       | 419    | kcal / 100g |      |
|           |  | AM/C/901      | Energy                                       | 1726   | kJ / 100g   |      |
|           |  | AM/C/403      | Total Sugars (expressed as Glucose)          | 1.7    | g / 100g    |      |
|           |  | SUB-CON       | Cadmium                                      | <0.05  | mg / kg     | S    |
|           |  | SUB-CON       | Lead   | <0.05  | mg / kg     | S    |
|           |  | SUB-CON       | Arsenic                                      | <0.1   | mg / kg     | S    |
|           |  | AM/C/1002     | Calcium                                      | 517    | mg / 100g   |      |
|           |  | AM/C/1002     | Iron   | 679    | mg / 100g   |      |
|           |  | AM/C/1002     | Potassium                                    | 706    | mg / 100g   |      |
|           |  | AM/C/1002     | Magnesium                                    | 376    | mg / 100g   |      |
|           |  | AM/C/1002     | Phosphorus                                   | 726    | mg / 100g   |      |
|           |  | AM/C/1002     | Sodium (ICP-OES)                             | 2.30   | mg / 100g   |      |
|           |  | SUB-CON       | Mercury                                      | <0.003 | mg / kg     |      |
|           |  | AM/C/107      | FAME C6:0 Caproic Acid (In Fat)              | <0.01  | g / 100g    |      |
|           |  | AM/C/107      | FAME C8:0 Caprylic Acid (In Fat)             | 0.01   | g / 100g    |      |
|           |  | AM/C/107      | FAME C10:0 Capric Acid (In Fat)              | <0.01  | g / 100g    |      |
|           |  | AM/C/107      | FAME C12:0 Lauric Acid (In Fat)              | <0.01  | g / 100g    |      |
|           |  | AM/C/107      | FAME C14:0 Myristic Acid (In Fat)            | 0.04   | g / 100g    |      |
|           |  | AM/C/107      | FAME C14:1 Myristoleic Acid (In Fat)         | <0.01  | g / 100g    |      |
|           |  | AM/C/107      | FAME C15:0 Pentadecanoic Acid (In Fat)       | 0.04   | g / 100g    |      |
|           |  | AM/C/107      | FAME C16:0 Palmitic Acid (In Fat)            | 7.46   | g / 100g    |      |
|           |  | AM/C/107      | FAME C16:1 Palmitoleic Acid (In Fat)         | 0.27   | g / 100g    |      |
|           |  | AM/C/107      | FAME C17:0 Heptadecanoic Acid (In Fat)       | 0.06   | g / 100g    |      |
|           |  | AM/C/107      | FAME C17:1 Heptadecenoic Acid (In Fat)       | 0.10   | g / 100g    |      |
|           |  | AM/C/107      | FAME C18:0 Stearic Acid (In Fat)             | 3.65   | g / 100g    |      |
|           |  | AM/C/107      | FAME C18:1 Oleic Acid (In Fat)               | 7.55   | g / 100g    |      |
|           |  | AM/C/107      | FAME C18:2 Linoleic Acid (In Fat)            | 19.34  | g / 100g    |      |
|           |  | AM/C/107      | FAME C18:3 Linolenic Acid (omega 3) (In Fat) | 55.80  | g / 100g    |      |
|           |  | AM/C/107      | FAME C18:3 Linolenic Acid (omega 6) (In Fat) | 0.09   | g / 100g    |      |
|           |  | AM/C/107      | FAME C18:4 Octadecatetraenoic Acid (In Fat)  | 0.05   | g / 100g    |      |
|           |  | AM/C/107      | FAME C20:0 Arachidic Acid (In Fat)           | 0.33   | g / 100g    |      |
|           |  | AM/C/107      | FAME C20:1 Gadoleic Acid (In Fat)            | 0.17   | g / 100g    |      |
|           |  | AM/C/107      | FAME C20:2 Eicosadienoic Acid (In Fat)       | 0.10   | g / 100g    |      |

| Lab Ref.  | Sample Details                         | Method Number | Test   | Result    | Units                     | Flag |          |  |
|-----------|--|---------------|--|-----------|---------------------------|------|----------|--|
| CHC311539 | Continued from Page 1                  | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 3) (In Fat)      | 0.05      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 6) (In Fat)      | 0.01      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 3) (In Fat)         | 0.01      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 6) (In Fat)         | <0.01     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C20.5 Eicosapentaenoic Acid (In Fat)              | <0.01     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22.0 Behenic Acid (In Fat)                       | 0.11      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22.1 Ceroleic Acid (In Fat)                      | 0.04      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22.4 Docosahexaenoic Acid (In Fat)               | 0.09      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22.5 Clupanodonic Acid (In Fat)                  | <0.01     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C22.6 Docosahexaenoic Acid (In Fat)               | 0.07      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | FAME C24.0 Lignoceric Acid (In Fat)                    | 0.14      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Saturated Fatty Acids (In sample)                      | 3.29      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Monounsaturated Fatty Acids (In sample)                | 2.27      | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Polysaturated Fatty Acids (In sample)                  | 21.02     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Estimated Total Omega 3 (In Fat)                       | 55.98     | g / 100g                  |      |          |  |
|           |  | AM/C/107      | Estimated Total Omega 3 (In Sample)                    | 15562     | mg / 100g                 |      |          |  |
|           |  | AM/C/107      | FAME C15.1 Pentadecanoic Acid (In Fat)                 | <0.01     | g / 100g                  |      |          |  |
|           |  | AM/V/710      | Vitamin C (as Ascorbic Acid)                           | 1.58      | mg / 100g                 |      |          |  |
|           |  | AM/V/702      | Vitamin A (Retinol)                                    | <60.0     | µg / 100g                 |      |          |  |
|           |  | AM/V/702      | Vitamin E (as DL-α-tocopherol acetate)                 | 0.34      | mg / 100g                 |      |          |  |
|           |  | CHC311540     | Desc: 100% Chia - Ecuador<br>Date Received: 19/06/2015 | AM/C/1015 | Moisture (Loss on Drying) | 7.4  | g / 100g |  |
|           |  |               |  | AM/C/724  | Protein (Nx6.25)          | 23.1 | g / 100g |  |
|           |  |               |  | AM/C/1015 | Total Fat (NMR)           | 26.9 | g / 100g |  |
| AM/C/803  | Ash                                    |               |  | 4.6       | g / 100g                  |      |          |  |
| AM/C/901  | Total Carbohydrate (by difference)     |               |  | 38.0      | g / 100g                  |      |          |  |
| AM/C/309  | Total Dietary Fibre (AOAC)             |               |  | 37.3      | g / 100g                  |      |          |  |
| AM/C/901  | Available Carbohydrate (by difference) |               |  | 0.7       | g / 100g                  |      |          |  |
| AM/C/901  | Energy                                 |               |  | 412       | kcal / 100g               |      |          |  |
| AM/C/901  | Energy                                 |               |  | 1698      | kJ / 100g                 |      |          |  |
| AM/C/403  | Total Sugars (expressed as Glucose)    |               |  | 2.0       | g / 100g                  |      |          |  |
| SUB-CON   | Cadmium                                |               |  | <0.05     | mg / kg                   | S    |          |  |
| SUB-CON   | Lead                                   |               |  | <0.05     | mg / kg                   | S    |          |  |
| SUB-CON   | Arsenic                                |               |  | <0.1      | mg / kg                   | S    |          |  |
| AM/C/1002 | Calcium                                |               |  | 512       | mg / 100g                 |      |          |  |
| AM/C/1002 | Iron                                   |               |  | 6.64      | mg / 100g                 |      |          |  |
| AM/C/1002 | Potassium                              |               |  | 689       | mg / 100g                 |      |          |  |
| AM/C/1002 | Magnesium                              |               |  | 369       | mg / 100g                 |      |          |  |
| AM/C/1002 | Phosphorus                             |               |  | 747       | mg / 100g                 |      |          |  |
| AM/C/1002 | Sodium (ICP-OES)                       |               |  | 1.95      | mg / 100g                 |      |          |  |
| SUB-CON   | Mercury                                |               |  | <0.003    | mg / kg                   | S    |          |  |
| AM/C/107  | FAME C6.0 Caproic Acid (In Fat)        |               |  | <0.01     | g / 100g                  |      |          |  |
| AM/C/107  | FAME C8.0 Caprylic Acid (In Fat)       |               |  | 0.02      | g / 100g                  |      |          |  |
| AM/C/107  | FAME C10.0 Capric Acid (In Fat)        |               |  | <0.01     | g / 100g                  |      |          |  |
| AM/C/107  | FAME C12.0 Lauric Acid (In Fat)        | <0.01         | g / 100g   |           |                           |      |          |  |
| AM/C/107  | FAME C14.0 Myristic Acid (In Fat)      | 0.04          | g / 100g   |           |                           |      |          |  |
| AM/C/107  | FAME C14.1 Myristoleic Acid (In Fat)   | <0.01         | g / 100g   |           |                           |      |          |  |
| AM/C/107  | FAME C15.0 Pentadecanoic Acid (In Fat) | 0.04          | g / 100g   |           |                           |      |          |  |

| Lab Ref.  | Sample Details                         | Method Number | Test  | Result | Units     | Flag |
|-----------|--|---------------|---|--------|-----------|------|
| CHC311540 | Continued from Page 2                  | AM/C/107      | FAME C16.0 Palmitic Acid (In Fat)                 | 7.36   | g / 100g  |      |
|           |  | AM/C/107      | FAME C16.1 Palmitoleic Acid (In Fat)              | 0.28   | g / 100g  |      |
|           |  | AM/C/107      | FAME C17.0 Heptadecanoic Acid (In Fat)            | 0.06   | g / 100g  |      |
|           |  | AM/C/107      | FAME C17.1 Heptadecenoic Acid (In Fat)            | 0.10   | g / 100g  |      |
|           |  | AM/C/107      | FAME C18.0 Stearic Acid (In Fat)                  | 3.62   | g / 100g  |      |
|           |  | AM/C/107      | FAME C18.1 Oleic Acid (In Fat)                    | 7.48   | g / 100g  |      |
|           |  | AM/C/107      | FAME C18.2 Linoleic Acid (In Fat)                 | 19.15  | g / 100g  |      |
|           |  | AM/C/107      | FAME C18.3 Linolenic Acid (omega 3) (In Fat)      | 56.17  | g / 100g  |      |
|           |  | AM/C/107      | FAME C18.3 Linolenic Acid (omega 6) (In Fat)      | 0.09   | g / 100g  |      |
|           |  | AM/C/107      | FAME C18.4 Octadecatetraenoic Acid (In Fat)       | 0.04   | g / 100g  |      |
|           |  | AM/C/107      | FAME C20.0 Arachidic Acid (In Fat)                | 0.32   | g / 100g  |      |
|           |  | AM/C/107      | FAME C20.1 Gadoleic Acid (In Fat)                 | 0.18   | g / 100g  |      |
|           |  | AM/C/107      | FAME C20.2 Eicosadienoic Acid (In Fat)            | 0.10   | g / 100g  |      |
|           |  | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 3) (In Fat) | 0.04   | g / 100g  |      |
|           |  | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 6) (In Fat) | 0.01   | g / 100g  |      |
|           |  | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 3) (In Fat)    | <0.01  | g / 100g  |      |
|           |  | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 6) (In Fat)    | <0.01  | g / 100g  |      |
|           |  | AM/C/107      | FAME C20.5 Eicospentaenoic Acid (In Fat)          | <0.01  | g / 100g  |      |
|           |  | AM/C/107      | FAME C22.0 Behenic Acid (In Fat)                  | 0.11   | g / 100g  |      |
|           |  | AM/C/107      | FAME C22.1 Cetoleic Acid (In Fat)                 | 0.05   | g / 100g  |      |
|           |  | AM/C/107      | FAME C22.4 Docosatetraenoic Acid (In Fat)         | 0.09   | g / 100g  |      |
|           |  | AM/C/107      | FAME C22.5 Clupanodonic Acid (In Fat)             | <0.01  | g / 100g  |      |
|           |  | AM/C/107      | FAME C22.6 Docosahexaenoic Acid (In Fat)          | 0.07   | g / 100g  |      |
|           |  | AM/C/107      | FAME C24.0 Lignoceric Acid (In Fat)               | 0.15   | g / 100g  |      |
|           |  | AM/C/107      | Saturated Fatty Acids (In sample)                 | 3.15   | g / 100g  |      |
|           |  | AM/C/107      | Monounsaturated Fatty Acids (In sample)           | 2.18   | g / 100g  |      |
|           |  | AM/C/107      | Polyunsaturated Fatty Acids (In sample)           | 20.39  | g / 100g  |      |
|           |  | AM/C/107      | Estimated Total Omega 3 (In Fat)                  | 56.33  | g / 100g  |      |
|           |  | AM/C/107      | Estimated Total Omega 3 (In Sample)               | 15154  | mg / 100g |      |
|           |  | AM/C/107      | FAME C15.1 Pentadecenoic Acid (In Fat)            | <0.01  | g / 100g  |      |
|           |  | AM/V/710      | Vitamin C (as Ascorbic Acid)                      | 1.62   | mg / 100g |      |
|           |  | AM/V/702      | Vitamin A (Retinol)                               | <60.0  | µg / 100g |      |
|           |  | AM/V/702      | Vitamin E (as DL α-tocopherol acetate)            | 0.32   | mg / 100g |      |
| AM/C/1015 | Moisture (Loss on Drying)              | 7.3           | g / 100g  |        |           |      |
| AM/C/724  | Protein (Nx6.25)                       | 23.9          | g / 100g  |        |           |      |
| AM/C/1015 | Total Fat (NMR)                        | 26.9          | g / 100g  |        |           |      |
| AM/C/803  | Ash                                    | 4.6           | g / 100g  |        |           |      |
| AM/C/901  | Total Carbohydrate (by difference)     | 37.3          | g / 100g  |        |           |      |
| AM/C/309  | Total Dietary Fibre (AOAC)             | 37.8          | g / 100g  |        |           |      |
| AM/C/901  | Available Carbohydrate (by difference) | <0.1          | g / 100g  |        |           |      |
| AM/C/901  | Energy                                 | 413           | kcal / 100g                                       |        |           |      |
| AM/C/901  | Energy                                 | 1704          | kJ / 100g   |        |           |      |
| AM/C/403  | Total Sugars (expressed as Glucose)    | 1.6           | g / 100g  |        |           |      |
| SUB-CON   | Cadmium                                | <0.05         | mg / kg   |        | S         |      |
| SUB-CON   | Lead                                   | <0.05         | mg / kg   |        | S         |      |

 Desc: 100% Chia - Ecuador  
 Date Received: 18/06/2015

| Lab Ref.  | Sample Details        | Method Number | Test  | Result | Units     | Flag |
|-----------|-----------------------|---------------|---|--------|-----------|------|
| CHC311541 | Continued from Page 3 | SUB-CON       | Arsenic   | <0.1   | mg / kg   | S    |
|           |                       | AM/C/1002     | Calcium   | 508    | mg / 100g |      |
|           |                       | AM/C/1002     | Iron  | 6.46   | mg / 100g |      |
|           |                       | AM/C/1002     | Potassium   | 699    | mg / 100g |      |
|           |                       | AM/C/1002     | Magnesium   | 373    | mg / 100g |      |
|           |                       | AM/C/1002     | Phosphorus  | 807    | mg / 100g |      |
|           |                       | AM/C/1002     | Sodium (ICP-OES)                                  | 1.59   | mg / 100g |      |
|           |                       | SUB-CON       | Mercury   | <0.003 | mg / kg   | S    |
|           |                       | AM/C/107      | FAME C6.0 Caproic Acid (In Fat)                   | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C8.0 Caprylic Acid (In Fat)                  | 0.02   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C10.0 Capric Acid (In Fat)                   | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C12.0 Lauric Acid (In Fat)                   | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C14.0 Myristic Acid (In Fat)                 | 0.04   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C14.1 Myristoleic Acid (In Fat)              | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C15.0 Pentadecanoic Acid (In Fat)            | 0.04   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C16.0 Palmitic Acid (In Fat)                 | 7.42   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C16.1 Palmitoleic Acid (In Fat)              | 0.28   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C17.0 Heptadecanoic Acid (In Fat)            | 0.06   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C17.1 Heptadecenoic Acid (In Fat)            | 0.09   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.0 Stearic Acid (In Fat)                  | 3.66   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.1 Oleic Acid (In Fat)                    | 7.51   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.2 Linoleic Acid (In Fat)                 | 19.19  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.3 Linolenic Acid (omega 3) (In Fat)      | 55.98  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.3 Linolenic Acid (omega 6) (In Fat)      | 0.09   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C18.4 Octadecatetraenoic Acid (In Fat)       | 0.04   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.0 Arachidic Acid (In Fat)                | 0.33   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.1 Gadoleic Acid (In Fat)                 | 0.17   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.2 Eicosadienoic Acid (In Fat)            | 0.10   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 3) (In Fat) | 0.05   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.3 Eicosatrienoic Acid (omega 6) (In Fat) | 0.01   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 3) (In Fat)    | 0.01   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.4 Arachidonic Acid (omega 6) (In Fat)    | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C20.5 Eicosapentaenoic Acid (In Fat)         | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.0 Behenic Acid (In Fat)                  | 0.11   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.1 Cetoleic Acid (In Fat)                 | 0.05   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.4 Docosatetraenoic Acid (In Fat)         | 0.10   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.5 Clupanodonic Acid (In Fat)             | <0.01  | g / 100g  |      |
|           |                       | AM/C/107      | FAME C22.6 Docosahexaenoic Acid (In Fat)          | 0.07   | g / 100g  |      |
|           |                       | AM/C/107      | FAME C24.0 Lignoceric Acid (In Fat)               | 0.14   | g / 100g  |      |
|           |                       | AM/C/107      | Saturated Fatty Acids (In sample)                 | 3.18   | g / 100g  |      |
|           |                       | AM/C/107      | Monounsaturated Fatty Acids (In sample)           | 2.18   | g / 100g  |      |
|           |                       | AM/C/107      | Polyunsaturated Fatty Acids (In sample)           | 20.35  | g / 100g  |      |
|           |                       | AM/C/107      | Estimated Total Omega 3 (In Fat)                  | 56.16  | g / 100g  |      |
|           |                       | AM/C/107      | Estimated Total Omega 3 (In Sample)               | 15106  | mg / 100g |      |

| Lab Ref.  | Sample Details        | Method Number | Test                                   | Result | Units     | Flag |
|-----------|-----------------------|---------------|--|--------|-----------|------|
| CHC311541 | Continued from Page 4 | AM/C/107      | FAME C15:1 Pentadecenoic Acid (In Fat) | <0.01  | g / 100g  |      |
|           |                       | AM/V/710      | Vitamin C (as Ascorbic Acid)           | 1.56   | mg / 100g |      |
|           |                       | AM/V/702      | Vitamin A (Retinol)                    | <60.0  | µg / 100g |      |
|           |                       | AM/V/702      | Vitamin E (as DL α-tocopherol acetate) | 0.30   | mg / 100g |      |

The results for saturated, monounsaturated and polyunsaturated fatty acids in the sample use a 0.956 conversion factor for non fatty acid material in the fat.

The values above for the total monounsaturated fatty acids and total polyunsaturated fatty acids are inclusive of both cis and trans components.



Karl Larder

Section Head - Nutritional Chemistry

For and on Behalf of ALS Food and Pharmaceutical

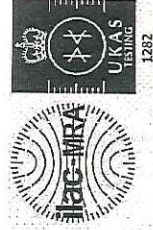


W. Steven Nicholson

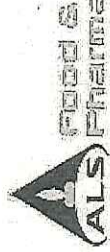
Section Head

**Disclaimers:**

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# TEST CERTIFICATE

Medical Way Bridge Street Chatteris Cambridgeshire PE16 6QZ England  
Telephone: 01354 695858

Mr Daniel Bermeo  
TerraFertiL UK Limited  
13 Dorsel Street  
Floor 6  
London, Greater London  
W1U 6QT

Certificate Number: TCHT1049872-1 Final  
Date Reported: 06/07/2015  
Date Analysis Started: 29/06/2015  
Order Number:

| Lab Ref.   | Sample Details  | Method Number | Test                             | Result       | Units | Flag |
|------------|---|---------------|----------------------------------|--------------|-------|------|
| CHT3482014 | Desc: Chia Seeds - Argentina<br>Date Received: 29/06/2015 | ESGM-M303     | Enterobacteriaceae (presumptive) | <10          | cfu/g |      |
|            |   | ESGM-M302     | Coliforms (presumptive)          | <10          | cfu/g |      |
|            |   | ESGM-M307     | Coagulase positive Staphylococci | <20          | cfu/g |      |
|            |   | ESGM-M319     | Bacillus cereus (presumptive)    | <20          | cfu/g |      |
|            |   | ESGM-M308     | Moulds                           | <20          | cfu/g |      |
|            |   | ESGM-M515     | Salmonella sp. (ELISA)           | Not Detected | / 25g |      |
|            |   | ESGM-M309     | Enterobacteriaceae (presumptive) | <10          | cfu/g |      |
|            |   | ESGM-M302     | Coliforms (presumptive)          | <10          | cfu/g |      |
|            |   | ESGM-M307     | Coagulase positive Staphylococci | <20          | cfu/g |      |
|            |   | ESGM-M319     | Bacillus cereus (presumptive)    | <20          | cfu/g |      |
| CHT3482015 | Desc: Chia Seeds - Ecuador<br>Date Received: 29/06/2015   | ESGM-M303     | Enterobacteriaceae (presumptive) | <10          | cfu/g |      |
|            |   | ESGM-M302     | Coliforms (presumptive)          | <10          | cfu/g |      |
|            |   | ESGM-M307     | Coagulase positive Staphylococci | <20          | cfu/g |      |
|            |   | ESGM-M319     | Bacillus cereus (presumptive)    | <20          | cfu/g |      |
|            |   | ESGM-M308     | Moulds                           | <20          | cfu/g |      |
|            |   | ESGM-M515     | Salmonella sp. (ELISA)           | Not Detected | / 25g |      |
|            |   | ESGM-M309     | Enterobacteriaceae (presumptive) | <10          | cfu/g |      |
|            |   | ESGM-M302     | Coliforms (presumptive)          | <10          | cfu/g |      |
|            |   | ESGM-M307     | Coagulase positive Staphylococci | <20          | cfu/g |      |
|            |   | ESGM-M319     | Bacillus cereus (presumptive)    | <20          | cfu/g |      |
| CHT3482016 | Desc: Chia Seeds - Ecuador<br>Date Received: 29/06/2015   | ESGM-M303     | Enterobacteriaceae (presumptive) | <10          | cfu/g |      |
|            |   | ESGM-M302     | Coliforms (presumptive)          | <10          | cfu/g |      |
|            |   | ESGM-M307     | Coagulase positive Staphylococci | <20          | cfu/g |      |
|            |   | ESGM-M319     | Bacillus cereus (presumptive)    | <20          | cfu/g |      |
|            |   | ESGM-M308     | Moulds                           | <20          | cfu/g |      |
|            |   | ESGM-M515     | Salmonella sp. (ELISA)           | Not Detected | / 25g |      |
|            |   | ESGM-M309     | Enterobacteriaceae (presumptive) | <10          | cfu/g |      |
|            |   | ESGM-M302     | Coliforms (presumptive)          | <10          | cfu/g |      |
|            |   | ESGM-M307     | Coagulase positive Staphylococci | <20          | cfu/g |      |
|            |   | ESGM-M319     | Bacillus cereus (presumptive)    | <20          | cfu/g |      |



Certificate Number: TCHT1049872-1 Final

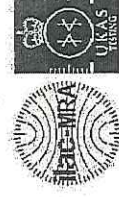
| Lab Ref.   | Sample Details                                       | Method Number | Test                             | Result       | Units   | Flag |
|------------|--|---------------|----------------------------------|--------------|---------|------|
| CHT3482017 | Desc: Chia Seeds - Peru<br>Date Received: 29/06/2015 | ESGM/303      | Enterobacteriaceae (presumptive) | <20          | cfu / g |      |
|            |  | ESGM-M302     | Coliforms (presumptive)          | <10          | cfu / g |      |
|            |  | ESGM-M307     | Coagulase positive Staphylococci | <20          | cfu / g |      |
|            |  | ESGM-M319     | Bacillus cereus (presumptive)    | <20          | cfu / g |      |
|            |  | ESGM-M308     | Yeasts                           | <20          | cfu / g |      |
|            |  | ESGM-M308     | Moulds                           | <30          | cfu / g |      |
| CHT3482018 | Desc: Chia Seeds - Peru<br>Date Received: 29/06/2015 | ESGM-M515     | Salmonella sp. (ELISA)           | Not Detected | / 25g   |      |
|            |  | ESGM/303      | Enterobacteriaceae (presumptive) | <10          | cfu / g |      |
|            |  | ESGM-M302     | Coliforms (presumptive)          | <10          | cfu / g |      |
|            |  | ESGM-M307     | Coagulase positive Staphylococci | <20          | cfu / g |      |
|            |  | ESGM-M319     | Bacillus cereus (presumptive)    | <20          | cfu / g |      |
|            |  | ESGM-M308     | Yeasts                           | 20           | cfu / g |      |
| ESGM-M308  | Moulds   | <20           | cfu / g                          |              |         |      |
| ESGM-M515  | Salmonella sp. (ELISA)                               | Not Detected  | Not Detected                     | / 25g        |         |      |

*Mould*

Ailsa Mould  
Section Head - Microbiology  
For and on Behalf of ALS Food and Pharmaceutical

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Food & Pharmaceutical

TEST CERTIFICATE

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W1U 6QT

Certificate Number: TCHT1047234-1 Final  
Date Reported: 26/06/2015  
Date Analysis Started: 20/06/2015  
Order Number:

| Lab Ref.   | Sample Details  | Method Number        | Test  | Result                  | Units            | Flag |
|------------|---|----------------------|---|-------------------------|------------------|------|
| CHT3470011 | Desc: Chia Seeds - Argentina<br>Date Received: 20/06/2015 | <del>ESGM-M303</del> | <del>Enterobacteriaceae (presumptive)</del> | <del>&lt;10</del>       | <del>cfu/g</del> |      |
|            |   | <del>ESGM-M302</del> | <del>Coliforms (presumptive)</del>          | <del>&lt;10</del>       | <del>cfu/g</del> |      |
|            |   | <del>ESGM-M307</del> | <del>Coagulase positive Staphylococci</del> | <del>&lt;20</del>       | <del>cfu/g</del> |      |
|            |   | <del>ESGM-M319</del> | <del>Bacillus cereus (presumptive)</del>    | <del>&lt;20</del>       | <del>cfu/g</del> |      |
|            |   | <del>ESGM-M308</del> | <del>Yeasts</del>                           | <del>&lt;20</del>       | <del>cfu/g</del> |      |
|            |   | <del>ESGM-M308</del> | <del>Moulds</del>                           | <del>&lt;20</del>       | <del>cfu/g</del> |      |
|            |   | <del>ESGM-M515</del> | <del>Salmonella sp. (ELISA)</del>           | <del>Not Detected</del> | <del>/ 25g</del> |      |
| CHT3470012 | Desc: Chia Seeds - Ecuador<br>Date Received: 19/06/2015   | ESGM-M303            | Enterobacteriaceae (presumptive)            | <10                     | cfu/g            |      |
|            |   | ESGM-M302            | Coliforms (presumptive)                     | <10                     | cfu/g            |      |
|            |   | ESGM-M307            | Coagulase positive Staphylococci            | <20                     | cfu/g            |      |
|            |   | ESGM-M319            | Bacillus cereus (presumptive)               | <20                     | cfu/g            |      |
|            |   | ESGM-M308            | Yeasts                                      | <20                     | cfu/g            |      |
|            |   | ESGM-M308            | Moulds                                      | <20                     | cfu/g            |      |
|            |   | ESGM-M515            | Salmonella sp. (ELISA)                      | Not Detected            | / 25g            |      |

Andy Muirhead  
Microbiologist  
For and on Behalf of ALS Food and Pharmaceutical

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