



# American International Chemical, Inc.

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## SPECIFICATION SHEET

### YERBA MATE EXTRACT, ORGANIC

| Code No. | SCN No. | CAS No.                  | Effective Date  | Product Manager | Rev. No. | Approved By |
|----------|---------|--------------------------|-----------------|-----------------|----------|-------------|
| YRBTFP   | 3040    | 84082-59-7<br>73296-98-7 | January 4, 2011 | SW              | Original | CDS         |

|                         |  |                             |
|-------------------------|--|-----------------------------|
| <b>CHARACTERISTICS:</b> | Spray dried powder of yerba mate ( <i>Ilex Paraguariensis</i> ), non selective water extraction that retains all the active molecules found in mate. Product dried with or without carrier depending on the level of actives. Origin of raw material: Latin America. Certifying body: Ecocert France, licence N°163034 T |                             |
|                         | Appearance   | Green to light brown powder |
|                         | Taste  | Neutral                     |
|                         | Extract Ratio  | 4:1                         |
|                         | Carrier  | Maltodextrin                |

|                        |   |                              |
|------------------------|---|------------------------------|
| <b>SPECIFICATIONS:</b> | Total polyphenols (European Pharmacopeia) | Greater than 10%             |
|                        | Total polyphenols (OD 280nm)              | Greater than 50%             |
|                        | Chlorogenic acids                         | Greater than 10%             |
|                        | Caffeine                                  | 2% to 6%                     |
|                        | Theobromine                               | Greater than 0.1%            |
|                        | Theophylline                              | Greater than 0.1%            |
|                        | Xanthines                                 | 6% to 10%                    |
|                        | Loss on drying                            | Less than 6%                 |
|                        | Ash                                       | Less than 15%                |
|                        | pH at 1%                                  | 4 to 6                       |
|                        | Solubility at 1%                          | Greater than 95%             |
|                        | Tapped density                            | 0.5 to 0.8 g/cm <sup>3</sup> |
|                        | Particle size                             | 95% less than 200µm          |

|                   |                            |
|-------------------|----------------------------|
| <b>PACKAGING:</b> | 25 kg bag in cardboard box |
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| <b>APPLICATIONS:</b> | Capsules and tablets for nutritional applications. |
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| <b>SHELF LIFE AND STORAGE INSTRUCTIONS:</b> | Hygroscopic powder, store in a dry place.<br>Best before: 24 months from date of manufacture |
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