

## Yerba Mate Leaves

|                 |                                   |
|-----------------|-----------------------------------|
| Art. ID         | NIST-3253                         |
| Unit            | 2 x 10 g                          |
| Deliverydetails | No Dangerous Good /not restricted |

### Description

This Standard Reference Material (SRM) is intended primarily for use in validating methods for determining polycyclic aromatic hydrocarbons (PAHs) in yerba mate and similar matrices, and can also be used for quality assurance when assigning values to in-house control materials. A unit of NIST-3253 consists of two heat-sealed, aluminized pouches, each containing approximately 10 g of ground yerba mate. /// Sample value(s) - please ask for current certificate.

| Text/Information        | Analyte/Parameter      | CAS number  | Concentration/Value | Unit      | Method | Source |
|-------------------------|------------------------|-------------|---------------------|-----------|--------|--------|
| Certified Mass Fraction | Pyrene                 | [129-00-0]  | 324 ± 53            | ng/g      | GC-MS  |        |
| Certified Mass Fraction | Benz(a)anthracene      | [56-55-3]   | 70,2 ± 3,0          | ng/g      | GC-MS  |        |
| Certified Mass Fraction | Benzo(a)pyrene         | [50-32-8]   | 57,8 ± 6,9          | ng/g      | GC-MS  |        |
| Certified Mass Fraction | Perylene               | [198-55-0]  | 14,4 ± 2,7          | ng/g      | GC-MS  |        |
| Certified Mass Fraction | Benzo(g,h,i)perylene   | [191-24-2]  | 118,6 ± 2,3         | ng/g      | GC-MS  |        |
| Reference Mass Fraction | 2-Methylphenanthrene   | [2531-84-2] | 69 ± 10             | ng/g      | GC-MS  |        |
| Reference Mass Fraction | 3-Methylphenanthrene   | [832-71-3]  | 62 ± 14             | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Fluoranthene           | [206-44-0]  | 280 ± 48            | ng/g      | GC-MS  |        |
| Reference Mass Fraction | 1-Methylpyrene         | [2381-21-7] | 18,8 ± 1,6          | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Benzo(c)phenanthrene   | [195-19-7]  | 18,9 ± 2,4          | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Chrysene               | [218-01-9]  | 128 ± 16            | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Triphenylene           | [217-59-4]  | 29,1 ± 6,9          | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Benzo(b)fluoranthene   | [205-99-2]  | 48 ± 22             | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Benzo(k)fluoranthene   | [207-08-9]  | 25,1 ± 9,1          | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Benzo(a)fluoranthene   | [203-33-8]  | 14,7 ± 3,8          | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Indeno(1,2,3-cd)pyrene | [193-39-5]  | 57,7 ± 4,2          | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Picene                 | [213-46-7]  | 12,72 ± 0,58        | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Coronene               | [191-07-1]  | 43,8 ± 1,8          | ng/g      | GC-MS  |        |
| Reference Mass Fraction | Ash                    |             | 5,81 ± 0,17         | g/100g    |        |        |
| Reference Mass Fraction | Protein                |             | 10,64 ± 0,90        | g/100g    |        |        |
| Reference Mass Fraction | Carbohydrates          |             | 77,8 ± 3,1          | g/100g    |        |        |
| Reference Mass Fraction | Total fat              |             | 5,4 ± 3,4           | g/100g    |        |        |
| Reference Mass Fraction | Calories               |             | 402 ± 15            | kcal/100g |        |        |