



**IRIS NATURALS  
INTERNATIONAL**

Your Reliable Global Supplier

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**CERTIFICATE OF ANALYSIS**

Product Name: Organic Dry Yerba Mate Extract 8.5 – 9.1% Caffeine  
 Scientific Name: *Ilex Paraguariensis* Saint Hillaire  
 Product Code: 81021  
 Plant Part Used: Organic Leaves  
 Manufacturing Process: Hot Extraction Under Agitation/ Concentration Spray Drying  
 Country of Origin: Brazil  
 Preservatives: None  
 Solvent for Extraction: Water  
 Excipients: Organic Manioc Maltodextrin (30% max.)  
 Ratio: 4 – 6:1

ANALYSIS	SPECIFICATION	RESULTS	TEST METHODS
<b>PHYSICAL-CHEMICAL PROPERTIES:</b>			
<b>Aspect</b>	Fine Hygroscopic powder	Fine Hygroscopic powder	IT2-100
<b>Color</b>	Greenish Brown	Greenish Brown	IT2-100
<b>Taste/ Odor</b>	Characteristic	Characteristic	IT2-100
<b>Loss on Drying %</b>	Max. 6.00	Conforms	IT2-100
<b>pH (10% sol.)</b>	4.50 – 6.50	Conforms	IT2-100
<b>Volumetric Density g/L</b>	300.00 – 750.00	Conforms	IT2-100
<b>Particle Size</b>	NLT 80% - 60 mesh	Conforms	IT2-107
<b>Water Solubility</b>	Soluble	Soluble	IT2-360
<b>Total Methylx. as Caffeine</b>	8.50 – 9.10	Conforms	IT2-002
<b>Ash Insoluble in Acid %</b>	Informative	Informative	IT2-003
<b>Total Ash %</b>	Informative	Informative	IT2-003
<b>TLC – Mate</b>	Positive Chromatographic Profile	Positive Chromatographic Profile	IT2-331
<b>Heavy Metals – As (ppm)</b>	Max 1,00	Conforms	IT2-3RD
<b>Heavy Metals – Cd (ppm)</b>	Max 1,00	Conforms	IT2-3RD
<b>Heavy Metals – Hg (ppm)</b>	Max 0,10	Conforms	IT2-3RD

<b>MICROBIOLOGICAL ANALYSIS:</b>			
<b>Total Bacteria</b>	< 10,000 CFU/g	Conforms	IT2-046
<b>Mold / Yeast</b>	< 100 CFU/g	Conforms	IT2-046
<b>Pseudomonas aeruginosa</b>	Absent in 10g	Conforms	IT2-047
<b>Salmonella sp</b>	Absent in 10g	Conforms	IT2-047
<b>Eschericchia coli.</b>	Absent in 10g	Conforms	IT2-047
<b>Staphylococcus aureus</b>	Absent in 10g	Conforms	IT2-047

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NON-IRRADIATION STATEMENT: This product is not treated by irradiation.

CONCLUSION: This product complies with specifications.

PACKAGE: 25 Kg or 50 Kg fiber drum containing double plastic bag.

STORAGE & STOCK TEMPERATURE: Store in a cool and dry place under 20°, in a well-closed container, protected from heat and humidity. Keep away from moisture. Opened containers should be closed immediately.

SHELF LIFE: 2 years when stored properly.

This is a computer print out of the Certificate of Analysis and is also valid without signature!

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