



# IRIS NATURALS INTERNATIONAL

Your Reliable Global Supplier

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## CERTIFICATE OF ANALYSIS

Product Name: Cocoa Special 10.0-12.0% Theobromine  
 Scientific Name: Theobroma Cacao Linné  
 Part Used: Seeds  
 Plant Origin: Bahia  
 Code No.: 20961  
 Ratio: 5 – 7:1  
 Manufacturing Process: Extraction Defated Cocoa/Blending  
 Solvent for Extraction: Ethanol/Water (1:1)  
 Excipients/Preservatives: None  
 Country of Origin: Brazil

### ANALYSIS

### SPECIFICATION

### METHOD

ANALYSIS	SPECIFICATION	METHOD
<b>PHYSICAL-CHEMICAL CHARACTERISTICS</b>		
Aflatoxin B1 ug/Kg	Max. 2.000	IT2-3 <sup>RD</sup>
Aflatoxin B1 + B2 + G1 + G2 ug/Kg	Max. 4.000	IT2-3 <sup>RD</sup>
Ash Insoluble in Acid %	Informative	IT2-003
Aspect	Fine Hygroscopic Powder	IT2-100
Caffeine Assay (HPLC) %	0.20 – 1.50	IT2-115
Color	Brown to Dark Brown	IT2-100
Heavy Metals – As ppm	Max. 1.000	IT2-3RD
Heavy Metals – Cd ppm	Max. 0.500	IT2-3RD
Heavy Metals – Hg ppm	Max. 0.100	IT2-3RD
Heavy Metals – Pb ppm	Max. 3.000	IT2-3RD
Loss on Drying %	Max. 6.000	IT2-100
Ochratoxin A ug/Kg	Max. 2.000	IT2-3RD
Odor	Characteristic	IT2-100
Pesticide Residue	According to EC Legislation and EP 2.8.13	IT2-3RD
Residual Solvents	According to EP 5.4	IT2-3RD
Taste	Characteristic	IT2-100
Theobromine Assay %	10.00 – 12.00	IT2-115
Total Ash %	Informative	IT2-003
<b>MICROBIOLOGY</b>		
Enterobacteria	Absent in 10G	IT2-047
Escherichia coli	Absent in 10G	IT2-047
Pseudomonas aeruginosa	Absent in 10G	IT2-047
Salmonella sp	Absent in 10G	IT2-047
Staphylococcus aureus	Absent in 10G	IT2-047
Total Bacteria	< 10,000 CFU/G	IT2-046
Yeast and Mold	< 100 CFU/G	IT2-046

CONCLUSION:	Conforms with specifications.
STORAGE:	Store in cool & dry place. Keep away from strong heat and light and in tightly closed containers, protected also from humidity.  Opened containers should be closed immediately!
PACKAGE:	25 Kg fiber drum, containing double plastic bag.
SHELF LIFE:	2 years when stored properly.

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

Quality Supervisor:

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