

PICTURE OF ITEM(S)



Picture is not actual size. The color of the item(s) and the color of the picture may be different.

DETAIL



### ALGT COLORED STONE IDENTIFICATION REPORT

#### IDENTIFICATION

Species ..... Natural Beryl  
Variety ..... Emerald and Emerald in Matrix

#### DESCRIPTION

Shape & Cutting Style ..... Irregular (Rough)  
Total Grams Weight ..... 5481 Grams  
Color ..... Green to Deep Green  
Transparency ..... Semi-transparent - Opaque

#### ADDITIONAL GRADING CHARACTERISTICS

Origin ..... Brazil  
Origin determination is an expert opinion based on microscopic examination, spectroscopic features and chemical trace element analysis.

#### COMMENTS

Bag number : 52.121.

Size : Melee, Small

Commercial Quality to Near-gem Quality, fewer stones with matrix (host rock)

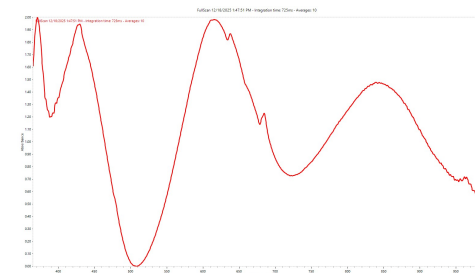
Some Gem Quality stones present

Weight is approximate (+/- 1g), and includes the plastic bag

### MAIN PROPERTIES OF EMERALD

Chemical Composition .....  $\text{Be}_3\text{Al}_2(\text{SiO}_3)_6$   
Crystal System ..... Hexagonal  
Mohs Hardness ..... 7.5 - 8.0  
Specific Gravity ..... 2.62 - 2.80  $\text{g/cm}^3$   
Optical Character ..... Uniaxial-  
Refractive Index ..... 1.560 - 1.602  
Birefringence ..... 0.004 - 0.010

#### UV-VIS-NIR SPECTRUM



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