

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

**DESCRIPTION**

Shape & Cutting Style ..... Irregular (Rough)  
Total Grams Weight ..... 3275 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 : 38.84.

Size : Melee, Small and several Medium size

Near-gem quality, few stones with matrix (host rock)

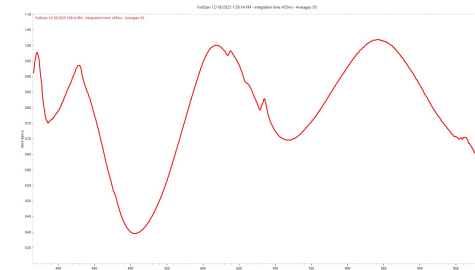
Several gem quality stones present in small sizes

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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