28 February, 2025

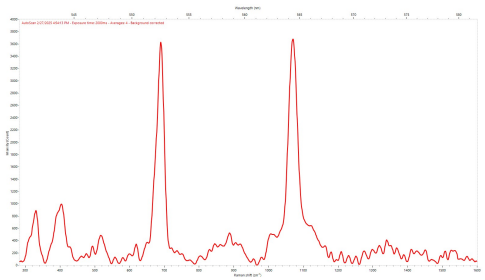
ALGT REPORT NUMBER: 03902245

PICTURE OF ITEM(S)



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

RAMAN SPECTRUM



ALGT
Antwerp Laboratory for Gemstone Testing

ALGT COLORED STONE IDENTIFICATION REPORT

IDENTIFICATION

Species ..... Natural Beryl
Variety ..... Emerald

DESCRIPTION

Shape & Cutting Style ..... Octagon Emerald, Step Cut
Measurements ..... 8.97 x 8.18 x 5.15 mm
Carat Weight ..... 2.96 Carat
Color ..... Vivid/Deep Green
Transparency ..... Transparent

ADDITIONAL GRADING CHARACTERISTICS

Color Quality Grade ..... Fine Color Quality
Origin ..... Zambia

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

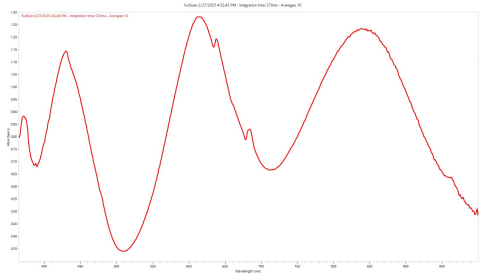
COMMENTS

Moderate amount of oil in fissures.
Oiling in emeralds is a common practice in trade. This enhancement is reversible at any time.

MAIN PROPERTIES OF EMERALD

Chemical Composition ..... $Be_3Al_2(SiO_3)_6$
Crystal System ..... Hexagonal
Mohs Hardness ..... 7.5 - 8.0
Specific Gravity ..... 2.62 - 2.80 g/cm^3
Optical Character ..... Uniaxial-
Refractive Index ..... 1.560 - 1.602
Birefringence ..... 0.004 - 0.010

UV-VIS-NIR SPECTRUM



Please visit our website for more information: www.algtlabs.com

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TERMS AND CONDITIONS ON REVERSE