

Product Information

Holmium wavelength calibration standard

Catalog Number **H8015**

Lot Number 120M8641

Store at Room Temperature

Product Description

The Holmium wavelength calibration standard is a high quality secondary reference standard offered as a suitable alternative to the NBS Holmium Oxide Solution (No. 2034). It is used to establish the accuracy of conventional spectrophotometers in the spectral range 240 to 650 nm.

The product consists of holmium perchlorate (15% w/v) in 10% perchloric acid supplied as a 3 ml sample in a flame sealed glass ampule. The absorbance of the standard has been normalized against NBS Holmium Oxide Solution (No. 2034). The absorbance spectrum of Lot Number 120M8641 is shown (see Figure 1) along with the comparison of selected wavelength maxima of this lot versus the NBS Standard (see Table 1).

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Table 1.

Wavelength of Absorbance Maxima >0.2

H8015 Lot Number 120M8641	NBS Standard
240.8	240.8
277.8	277.8
287.1	287.1
361.1	361.1
416.4	416.4
451.2	451.3
485.2	485.2
536.5	536.5
640.5	640.5

Storage/Stability

Store the product at room temperature.

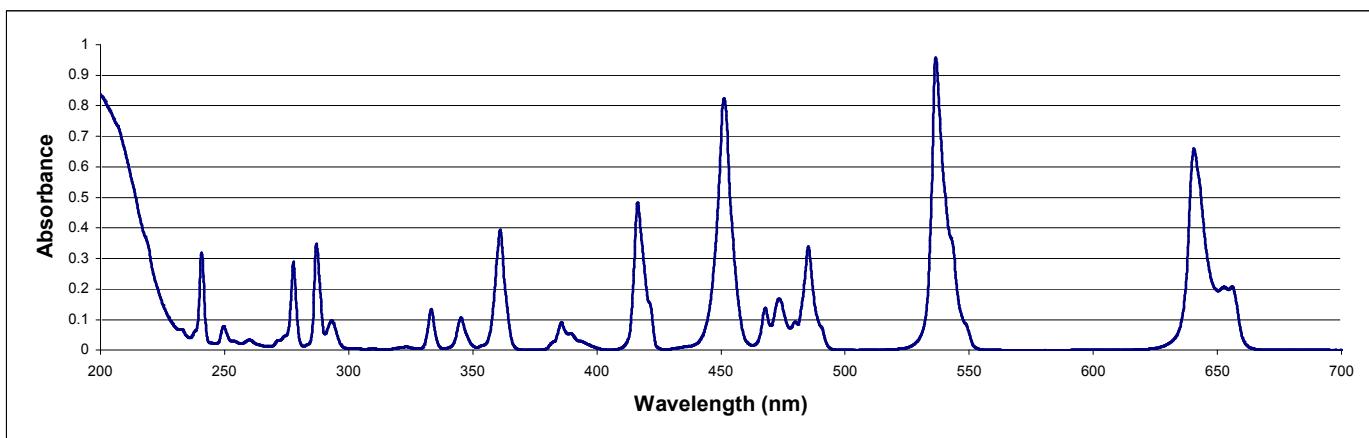
References

1. Graselli, J.G., CRC Atlas of Spectral Data and Physical Constants for Organic Compounds, (1973) pp. A-60.

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Figure 1.

Absorbance spectrum of Holmium perchlorate (15% w/v) in 10% perchloric acid (H8015, Lot Number 120M8641)



Conditions: 1 nm bandwidth; 0.5 nm data interval; 120 nm/minute scan speed; 1 cm pathlength; quartz cuvette
Instrument: Beckman-Coulter DU 800.

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