
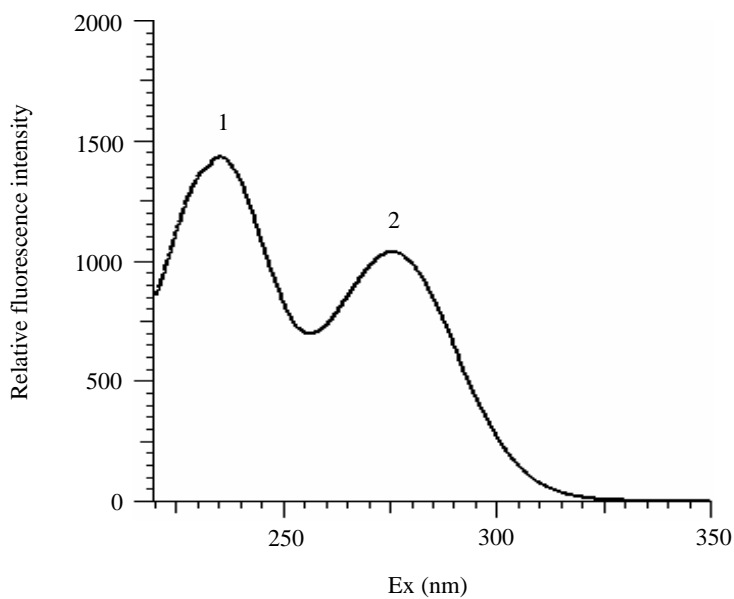


## Excitation Spectrum of Optical Glass (BK-7)

### INTRODUCTION

BK-7, an optical glass, is classified as borosilicate glass. It has a good transmittance at 350 nm- 2000 nm and can be used as a homogeneous optical material with little bubbles and impurities. The fluorescence was not confirmed at the excitation wavelengths higher than 350 nm. At the wavelengths lower than 350 nm, the light was absorbed and intense fluorescence was confirmed. For samples such as glass that transmits the excitation light, the fluorescence can be measured with high accuracy by using a solid sample holder with a transmission hole (P/N: 250-0366).

SAMPLE	ACCESSORY
SAMPLE NAME : Optical glass (BK-7)	Solid sample holder with a transmission hole (P/N : 250-0366) 
INSTRUMENT CONDITIONS	PEAKS (nm)
INSTRUMENT : F-7000 EM WAVE LENGTH : 365 nm      RESPONSE : Auto EX BANDPASS : 5 nm      EM FILTER : 310 EM BANDPASS : 5 nm      PHOTOMULTIPLIER : R3788 SCAN SPEED : 240 nm/min      PHOTOMULTIPLIER VOL. : 400 V	1 : 235 2 : 275



[Corrected spectrum]

#### KEY WORDS

Optical Glass, BK-7, Glass, Base Material, Solid, Excitation Spectrum, FL, FL-7000


Fluorophotometer (FL)

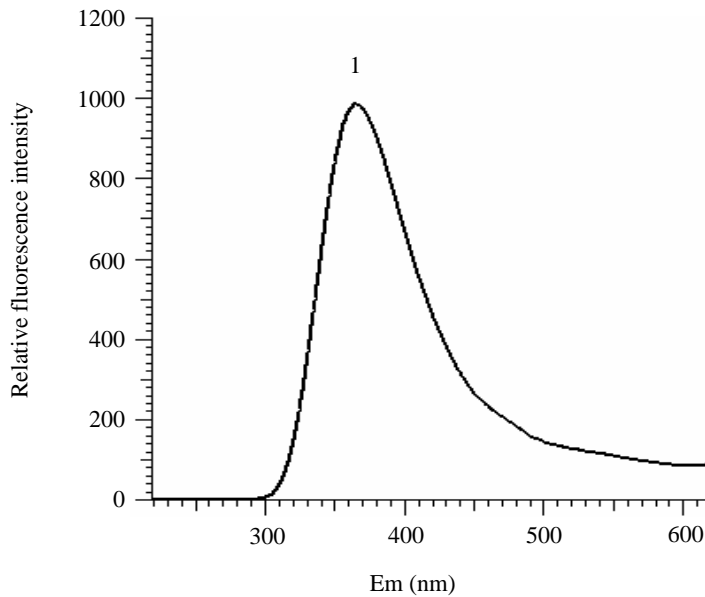
Sheet No. FL080011-01

## Fluorescence Spectrum of Optical Glass (BK-7)

### INTRODUCTION

BK-7, an optical glass, is classified as borosilicate glass. It has a good transmittance at 350 nm- 2000 nm and can be used as a homogeneous optical material with little bubbles and impurities. The fluorescence spectrum at the excitation wavelength of 275 nm was obtained and the fluorescence having a peak around 365 nm was confirmed. For samples such as glass that transmits the excitation light, the fluorescence can be measured with high accuracy by using a solid sample holder with a transmission hole (P/N: 250-0366).

SAMPLE	ACCESSORY
SAMPLE NAME : Optical Glass (BK-7)	Solid sample holder with a transmission hole (P/N : 250-0366) 
INSTRUMENT CONDITIONS	PEAKS (nm)
INSTRUMENT : F-7000 EX WAVE LENGTH : 270 nm      RESPONSE : Auto EX BANDPASS : 5 nm      EM FILTER : 310 EM BANDPASS : 5 nm      PHOTOMULTIPLIER : R3788 SCAN SPEED : 240 nm/min      PHOTOMULTIPLIER VOL : 400 V	1 : 365



[Corrected spectrum]

#### KEY WORDS

Optical Glass, BK-7, Glass, Base Material, Solid, Excitation Spectrum, FL, FL-7000

Fluorophotometer (FL)

Sheet No. FL080011-02

### 3D Fluorescence Spectrum of Optical Glass (BK-7)

#### INTRODUCTION

BK-7, an optical glass, is classified as borosilicate glass. It has a good transmittance at 350 nm- 2000 nm and can be used as a homogeneous optical material with little bubbles and impurities. By obtaining the three-dimensional fluorescence spectrum, the characteristic excitation and fluorescence wavelengths of the sample can be obtained at once. For samples such as glass that transmits the excitation light, the fluorescence can be measured with high accuracy by using a solid sample holder with a transmission hole (P/N: 250-0366).

#### SAMPLE

SAMPLE NAME : Optical Glass (BK-7)

#### ACCESSORY

Solid sample holder with a transmission hole  
(P/N : 250-0366)



#### INSTRUMENT CONDITIONS

INSTRUMENT : F-7000

EX BANDPASS : 5 nm

RESPONSE : Auto

FULLSCALE : 2000

EM BANDPASS : 5 nm

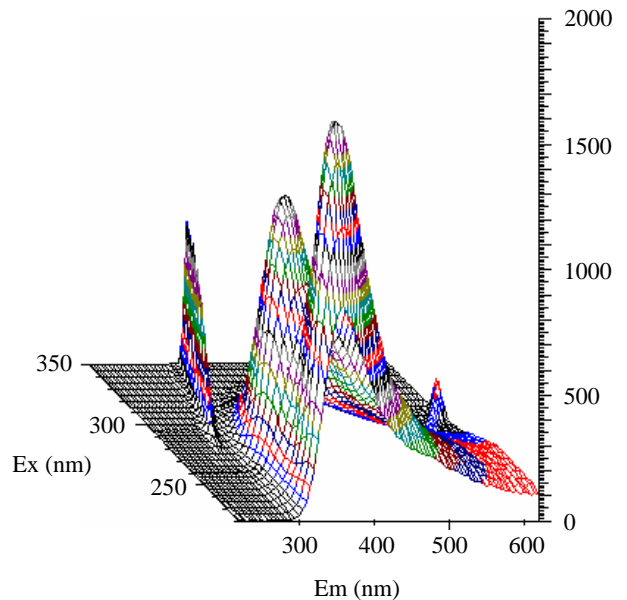
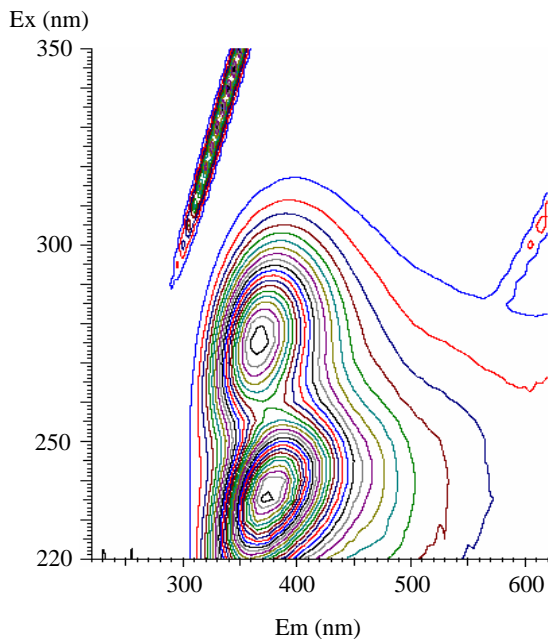
EM FILTER : 430

DIVISION NUMBER : 50

SCAN SPEED : 60000 nm/min

PHOTOMULTIPLIER : R3788

PHOTOMULTIPLIER VOL. : 400 V



#### KEY WORDS

Optical Glass, BK-7, Glass, Base Material, Solid, Three-dimension, Three-dimensional Fluorescence Spectrum, FL, FL-7000

Fluorophotometer (FL)

Sheet No. FL080011-03