
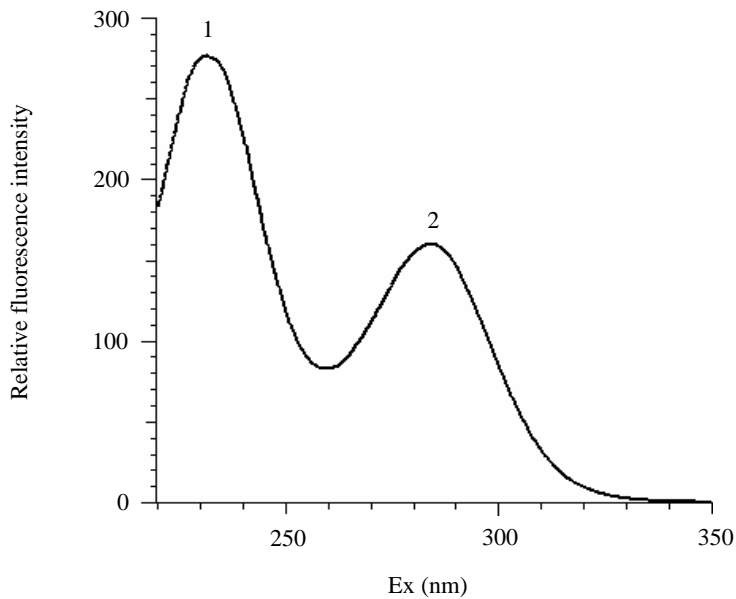


## Excitation Spectrum of Low fluorescent Glass

### INTRODUCTION

The fluorescence spectrum of a low fluorescent glass base material used for fluorescence microscopes, etc. was analyzed. At the excitation wavelengths higher than 350 nm, the fluorescence was not confirmed. At the wavelengths lower than 350 nm, the fluorescence was confirmed, but the intensity was about 30% of the fluorescence of an optical glass (BK-7). (Refer to DS 080011 for the fluorescence characteristics of BK-7.) 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
<b>SAMPLE NAME</b> : Low fluorescent glass (for fluorescence microscopes)	Solid sample holder with a transmission hole (P/N : 250-0366) 
INSTRUMENT CONDITIONS	PEAKS (nm)
<b>INSTRUMENT</b> : F-7000 <b>EM WAVE LENGTH</b> : 380 nm <b>RESPONSE</b> : Auto <b>EX BANDPASS</b> : 5 nm <b>EM FILTER</b> : 310 <b>EM BANDPASS</b> : 5 nm <b>PHOTOMULTIPLIER</b> : R3788 <b>SCAN SPEED</b> : 240 nm/min <b>PHOTOMULTIPLIER VOL.</b> : 400 V	1 : 232 2 : 284



[Corrected Spectrum]

#### KEY WORDS

Optical Glass, Glass, Base Material, Solid, Excitation Spectrum, FL, F-7000


Fluorophotometer (FL)

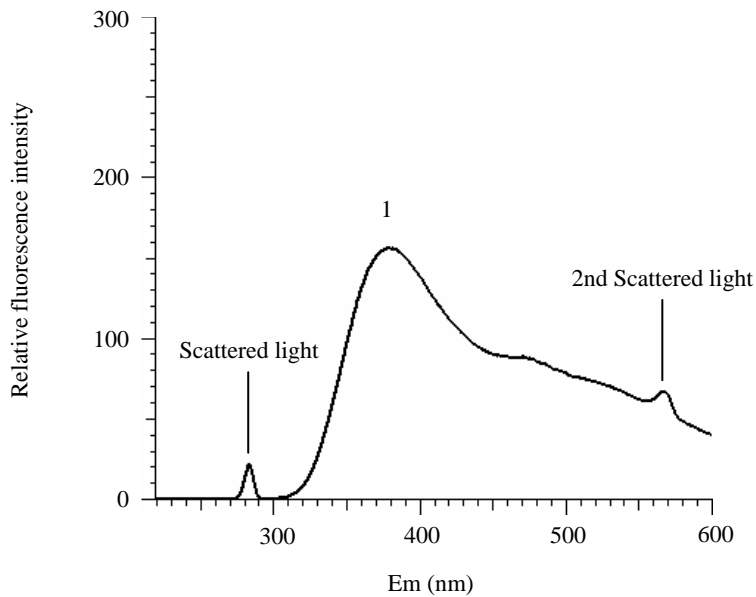
Sheet No. FL080012-01

# Fluorescence Spectrum of Low fluorescent Glass

## INTRODUCTION

The fluorescence spectrum of a low fluorescent glass base material used for fluorescence microscopes, etc. was analyzed. The fluorescence spectrum at the excitation wavelengths of 275 nm was obtained and the fluorescence having a peak at about 380 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 : Low fluorescent glass (for fluorescence microscopes)	Solid sample holder with a transmission hole (P/N : 250-0366) 
INSTRUMENT CONDITIONS	PEAKS (nm)
INSTRUMENT : F-7000 EX WAVE LENGTH : 280 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 : 379



### KEY WORDS

Optical Glass, Glass, Base Material, Solid, Excitation Spectrum, FL, F-7000

Fluorophotometer (FL)

Sheet No. FL080012-02

### 3D Fluorescence Spectrum of Low fluorescent Glass

#### INTRODUCTION

The fluorescence spectrum of a low fluorescent glass base material used for fluorescence microscopes, etc. was analyzed. 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 : Low fluorescent glass (for fluorescence microscopes)

#### ACCESSORY

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



#### INSTRUMENT CONDITIONS

INSTRUMENT : F-7000

EX BANDPASS : 5 nm

RESPONSE : Auto

FULLSCALE : 400

EM BANDPASS : 5 nm

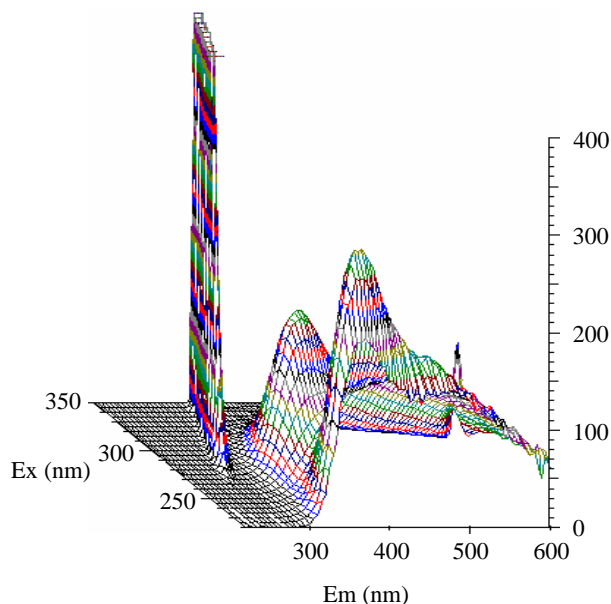
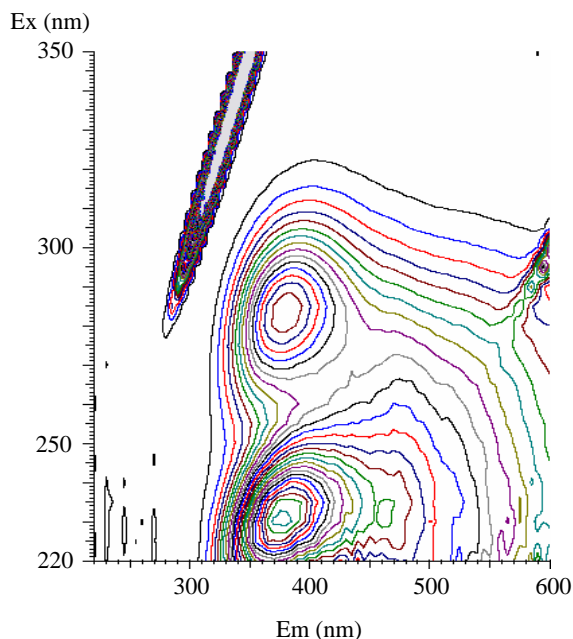
EM FILTER : 310

DIVISION NUMBER : 10

SCAN SPEED : 60000 nm/min

PHOTOMULTIPLIER : R3788

PHOTOMULTIPLIER VOL. : 400 V



#### KEY WORDS

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

Fluorophotometer (FL)

Sheet No. FL080012-03