

Precautions for Ultraviolet Spectrometers



Overview

This article explains the risks of ultraviolet radiation in spectrophotometry and provides actionable safety protocols for lamp maintenance. Protect staff from UV exposure in labs by following these spectrophotometer safety guidelines and expert tips for safe lamp replacement. Managing UV exposure. Many of the ultraviolet (UV) sources used in the laboratory emit high intensities of UV light, capable of producing painful eye and skin burns. However, the. Our deuterium and arc lamp sources, spectral calibration lamps, Solar Simulators and Flood Exposure Sources produce UV with wavelengths down to 180 nm and below, depending on the lamp and the envelope material of the lamp (the optics on the lamp housing may block the shorter UV wavelengths). Our. Trans-illuminescence and epi-illuminescence by UV light are used extensively in microscopy & molecular biology. UV light is a type of non-ionising radiation and can be categorised into three regions (UVA 400-315nm, UVB 315-280nm and UVC 280-100nm). All three types can present a significant hazard. The purpose of this document is to provide guidance to laboratory users, the Laboratory Safety Representative (LSR), and the Principal Investigators (PIs) or Center Director in the safety precautions required when using ultraviolet light sources. Scope This document applies to all laboratories.



Article Content

Jan 09, 2026

UV Exposure Risks in Spectrophotometers: Safety Guidelines and

Protect staff from UV exposure in labs by following these spectrophotometer safety guidelines and expert tips for safe lamp replacement. Managing UV exposure effectively ensures the

Dec 04, 2025

University of Washington

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Mar 27, 2026

SAFE USE OF ULTRAVIOLET LIGHT

Long-term exposure to UV can lead to cataracts, opacity of the eye lens and skin cancer. However in relation to work in the laboratory, the most significant risk is from short periods of intense exposure,

Jun 16, 2026

Ultraviolet Light Safety in the Laboratory

This training presentation provides information about the hazards associated with UV exposure and the safety precautions to take when working with these sources.

Aug 01, 2025

Ultraviolet Radiation Safe work guidelines

Ultraviolet Radiation Safe work guidelines Ultraviolet radiation, or simply referred to as UV light, is a type of electromagnetic radiation with a wavelength (180-400 nm), comprised of UVA, UVB, and UVC

Mar 02, 2026

Agilent Molecular Spectroscopy Safety Document

Safety Information For your safety, the following general safety precautions must be observed during all phases of operation of your Agilent spectroscopy instrument and installation. This document should

Jan 29, 2026

Use of Ultra-Violet Light Sources

Use of Ultra-Violet Light Sources Ultraviolet Radiation is that portion of the electromagnetic spectrum that falls in the region of...

Oct 11, 2025

UV/Vis Spectroscopy Guide | Principles, Equipment & More

Explore UV/Vis spectroscopy from basic principles to advanced applications. Learn about absorbance, equipment, calibration, and laboratory best practices in this comprehensive guide.

Oct 24, 2025

UV-Vis Spectroscopy: Principles, Strengths and

Ultraviolet-visible (UV-Vis) spectroscopy is a widely used technique in many areas of science ranging from bacterial culturing, drug identification and

Sep 17, 2025

Ultraviolet Radiation Safe work guidelines

The following safety controls are to be implemented where appropriate; based on the type of equipment, work location and risk of exposure to persons from UV emitting devices.

Jul 03, 2025

SAFETY GUIDELINE

UV Hazards Many people are not aware that UV lights can pose hazards. Like the sun, UV lights emit UV radiation that can cause skin burns, eye damage, including permanent blindness, and skin

Dec 31, 2025

Ultraviolet Light Safety in the Laboratory

Presented by the Office of Environmental Health & Safety Many of the ultraviolet (UV) sources used in the laboratory emit high intensities of UV light, capable of producing painful eye and skin burns. This

Oct 03, 2025

What are the precautions for using a spectrophotometer?

Some simple precautions in the use of the spectrophotometer include:allowing the lamps and electronics to warm upusing the correct wavelengthwiping fingerprints and spilt sample off the

Aug 28, 2025

Ultrspec Health Safety Booklet BW

This manual addresses the needs of scientists and technicians who operate UV-Visible spectrophotometers. The level of information presented in this manual assumes the user possesses

Apr 20, 2026

UV-VIS Spectrophotometer

Brief user manual SAFETY INFORMATION - The UV-VIS spectrophotometer is designed for safe and efficient operation when used properly and in accordance with this manual. Failure to observe the

Dec 18, 2025

What Should Be Considered Before Using a UV Visible

Are you planning to use a UV visible spectrophotometer for your scientific research or experiments? Before diving into the measurements, it is important to have a

Aug 25, 2025

Precautions And Problem Handling Process Of UV Spectrophotometer

UV spectrophotometer is an effective means to study the composition, structure and interaction between substances according to the absorption spectrum of substances. The UV

Oct 28, 2025

SAFETY GUIDELINE

UV light can also cause skin burns and lead to skin cancer on unprotected skin. In addition, UV light can reflect off shiny surfaces such as stainless steel, so use caution when working around equipment

Jul 05, 2025

Standard Operating Procedure Ultraviolet Visible (UV-Vis)

Description of Process The ultraviolet-visible spectroscopy (UV-Vis) utilizes light to determine the absorbance or transmission of a chemical species in either solid or aqueous state.

Dec 08, 2025

Ultraviolet light guidelines – University of Auckland

Read our guidelines about staying safe around ultraviolet (UV) light. The biological effects of exposure to UV radiation are dependent on the wavelength of the radiation. As the penetration of UV radiation is

May 14, 2026

Ultraviolet Safety Considerations

If you require the UV then there are several precautions you should take to minimize exposure and reduce the hazards. The U.S. National Institute for Occupational

May 28, 2026

Spectrophotometer Health & Safety Document including General

In common with all computer operation the following safety precautions are advised.

- To reduce the chance of eye strain, set up the PC display with the correct viewing position, free from glare and with

Oct 22, 2025

Guidelines for Working with Ultraviolet Light Sources

The purpose of this document is to provide guidance to laboratory users, the Laboratory Safety Representative (LSR), and the Principal Investigators (PIs) or Center Director in the safety

Contact Us

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