

How to Use a Spectrometer Online



Overview

Whether you're a student, researcher, or lab enthusiast, this tutorial will help you master the basics of UV-Vis spectroscopy for precise measurements in your experiments. Specifically, a UV-Visible Spectrometer measures the absorption or transmission of light in the ultraviolet (UV) and visible (Vis) regions of the electromagnetic spectrum. Use Advanced Full Spectrum Mode to teach students the direct relationship between absorbance and % transmittance or observe a Stokes shift. The Go Direct[®] SpectroVis[®] Plus Spectrophotometer quickly measures a full wavelength spectrum. Choose a solution with known concentration and measure the absorbance between the wavelengths 350 nm to 700 nm. Calculate the value of molar absorption coefficient. Welcome to our step-by-step guide on using a UV-Vis spectrophotometer for assays! In this video, we break down the process of operating a spectrophotometer, from setup to running accurate assays.



Article Content

Oct 10, 2025

How to Use a Spectrometer From Setup to Data Analysis

Gain expertise in spectrometry. This guide provides comprehensive steps for operating a spectrometer and understanding its results.

Dec 29, 2025

How to Use a Spectrometer: A Step-by-Step Guide

The operation of a spectrometer relies on four interconnected components working in sequence to produce a measurement. The process begins with the light source, which provides the ...

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UV-VIS spectrophotometer

To be measured in the spectrophotometer, the cuvette must contain at least 2 mL of sample. The absorbance reading displays ##### whenever it is not possible to measure: if the compartment cover ...

Feb 18, 2026

A Beginner's Guide to Using a Spectrophotometer

By following this guide, you will master the basics of spectrophotometer use. Careful preparation, setup, measurement, and data recording help you get the most from every experiment.

Jan 04, 2026

How to Do Spectrophotometric Analysis: 13 Steps (with Pictures)

By analyzing the light that passes through the solution, you can identify particular dissolved substances in solution and how concentrated those substances are. A spectrophotometer ...

Oct 06, 2025

Spectrophotometry

This interactive lesson covers the basics of Spectrophotometry including: a general overview of spectrophotometry, operation of a spectrophotometer, basic components, and common safety ...

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Spectrophotometry

Wipe the cuvette with tissue paper before placing the spectrophotometer. Clean all glassware with soap and distilled water. Once the experiment is completed recap the reagent bottles. ...

Sep 27, 2025

How To Use A Spectrophotometer

A spectrophotometer is a device used to measure light at a specific wavelength. It consists of two parts: a spectrometer and a photometer. The spectrometer provides light at a specific ...

Oct 26, 2025

How to Use a Spectrophotometer | UV-Vis Spectrophotometer for ...

In this video, we break down the process of operating a spectrophotometer, from setup to running accurate assays. Whether you're a student, researcher, or lab enthusiast, this tutorial will help...

Contact Us

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