

Hazards of Fluorescence Spectrometers



Overview

X-ray diffraction (XRD) and x-ray fluorescence (XRF) analysis equipment both generate high intensity ionizing radiation that can cause severe and permanent injury if anybody is exposed to the primary beam even for a few seconds. While the Nicolet™ Summit™ Spectrometer is designed to be a safe instrument, you should take a few precautions to protect yourself from potential hazards that can arise during normal use and maintenance. This document should be used in conjunction with installation requirements listed in your instrument Site Preparation Guide.) with a general description, the level of quality, precision and accuracy attainable, caveats, and useful references given for. X-ray fluorescence analysis (XRF) is a powerful rapid spectral analysis method that allows you to determine the elemental composition of almost any material (solids, liquids, powders).

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This study investigates X-ray intensity and dispersion around handheld X-ray fluorescence (XRF) instruments during the measurement of a range of sample matrices to establish radiation ...



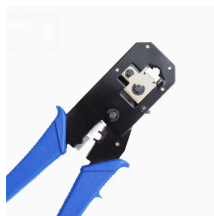
Users must insure that the fluorescence intensities of samples are reproducible and do not decrease over the time period that they are being excited and measured, because the organic dyes typically ...



That is why Elvatech, taking care of the maximum safety of its customers, has provided all its devices with reliable protection systems. We strongly recommend that you comply with radiation safety rules, ...



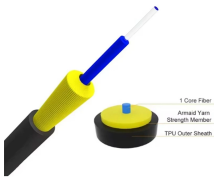
Wear protective equipment and follow standard laboratory safety practices. To avoid hazardous contact with liquid nitrogen, make sure that any dewar or container used to hold liquid ...



Before using the instrument, see the Site and Safety Information for a full description of these potential hazards. You can avoid possibly harming yourself or damaging the instrument by understanding ...



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Light scattering by particles in the sample is a greater problem with fluorescence assays than with absorbance assays. Filtration or centrifugation can be used to clarify the sample. Many fluorescent ...



Careless, improper, or unskilled use of such solvents, solutions, or reagents can create explosion hazards, fire hazards, toxicity and other hazards which can result in death, serious personal injury, ...



This risk assessment form evaluates hazards associated with using various spectroscopy equipment at a given location. It identifies hazards such as electrical failure, trip hazards from cables, exposure to ...



This standard provides guidelines specific to the radiation safety aspects of the design and operation of x-ray diffraction and fluorescence analysis equipment.



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Contact Us

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