

Article Overview

Spectrophotometers in Nigeria are widely used for research, diagnostics, and quality control across healthcare, academia, and industry.

Overview

A spectrophotometer is an analytical instrument that measures the absorbance or transmission of light at specific wavelengths through a sample, allowing precise determination of substance concentrations. In Nigeria, these instruments are essential in chemistry, biology, environmental science, and clinical diagnostics, providing reliable data for pharmaceuticals, food safety, water quality, and pollution monitoring (Franance Health Systems) .

Applications in Nigeria

- o Healthcare and Clinical Diagnostics: Nigerian teaching hospitals and university medical centers use spectrophotometers for routine testing, complex assays, and drug monitoring, ensuring accurate diagnostic results (Franance Health Systems) .
- o Research and Academia: Universities like Covenant University house advanced spectrophotometers (UV-Vis, FTIR-ATR) in their Central Instrumentation Research Facility, supporting molecular biology, chemistry, and environmental research (Covenant University) .
- o Industrial and Environmental Monitoring: Spectrophotometers are used to analyze soil, water, and air samples, ensuring compliance with environmental standards and quality control in food and pharmaceutical industries (Franance Health Systems) .

Availability and Suppliers

Spectrophotometers are available from multiple suppliers in Nigeria, including:

- o Franance Health Systems: Offers a range of spectrophotometers for laboratories and research institutions .
- o Medixab: Provides instruments for UV, visible, and infrared light analysis, suitable for protein, DNA, RNA, and enzymatic studies .
- o Laboid International: A leading manufacturer and supplier in Nigeria, offering high-quality spectrophotometers with reliable delivery and global recognition .
- o CELLENT Medical Limited: Offers spectrophotometers for quantitative analyses, kinetics, and DNA/protein testing at competitive prices .

Training and Technical Support



Nigerian Spectrometer

Institutions like Covenant University provide instrumentation training for internal staff and external clients, enhancing technical expertise and compliance with international standards. Workshops and certifications are often conducted in collaboration with international organizations, ensuring Nigerian researchers and technicians are proficient in spectrophotometer operation and maintenance (Covenant University) .

Conclusion

Spectrophotometers in Nigeria are critical tools for scientific research, healthcare diagnostics, and industrial quality control. With multiple suppliers, advanced university facilities, and training programs, Nigeria has a growing infrastructure to support the effective use of these instruments in both academic and professional settings.

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The structural parameters of six Nigerian coals were determined by X-ray diffraction, Raman and FTIR spectroscopy.

This study identifies okadaic acid and pectenotoxin 2 in Nigerian coastal waters for the first time. Concentrations of okadaic acid

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NIR spectrophotometer reduces downtime in production and provides rapid quality control of batch samples.

Validation of x-ray fluorescence measurements of metals in toenail clippings against inductively coupled plasma mass spectrometry

Algal toxin profiles in Nigerian coastal waters (Gulf of Guinea) using passive sampling and liquid chromatography coupled to mass

Spectrophotometers are used for many applications such as quantitative analyses, kinetics, spectrum

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Nigerian Spectrometer

Multi-residue determination of micropollutants in Nigerian fish from Lagos lagoon using ultrasound assisted extraction, solid phase

NBRRI EDXRF Spectrometer is a valuable tool for the Nigerian Building and Road Research Institute, providing essential data on the

Fabunmi, Idera ; Sims, Natalie ; Proctor, Kathryn et al. / Multi-residue determination of micropollutants in Nigerian fish from Lagos

Although there are no records of human illness and massive aquatic animals and fish kills in Nigerian coastal waters, the presence of

Laboratory Spectrophotometer in Nigeria by Scantrik Medical Supplies We are Nigeria's No.1 Dealer,

Keywords: Urea fertilizer, natural radionuclides, ionizing radiation, gamma ray spectrometer Abstract Urea fertilizer is

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