

Varian Cary® 100, 300

UV-Vis spectrophotometers

GUARANTEED SPECIFICATIONS

Introduction

Cary spectrophotometers are manufactured according to a quality management system certified to ISO 9001. The guaranteed specifications are listed below and are based on the ± 4 sigma statistical confidence level of the final acceptance tests performed at the factory. Typical specifications are not reported in this document.

Design overview

Double beam, dual chopper, ratio recording, Czerny-Turner 0.278 m monochromator UV-Vis spectrophotometer, centrally controlled by a PC. Cary 300 has double dispersion, Cary 100 has single dispersion. High light throughput optical system with all reflective optical design, high speed accurate scanning. Optional centrally controlled accessory system. High performance R928 photomultiplier tube, tungsten halogen visible source with quartz window, deuterium and ultra violet source. Centrally controlled by PC with Windows® interface.

	Cary 100	Cary 300
Monochromator	Czerny-Turner 0.278 m	Czerny-Turner 0.278 m plus pre-monochromator
Grating	30 x 35 mm, 1200 lines/mm, blaze angle 8.6° at 240 nm	
Beam splitting system	Chopper (30+ Hz)	
Detectors	R928 PMT	R928 PMT
UV-Vis limiting resolution (nm)	≤ 0.24	≤ 0.24
Stray light (%T)		
At 198 nm (12 g/L KCl, TOA & BPYEP method)	≤ 1%	≤ 1%
At 220 nm (10 g/L NaI ASTM method)	≤ 0.00%	≤ 0.0005%
At 370 nm (50 mg/L NaNO ₂)	≤ 0.0005%	≤ 0.0002%
Wavelength range (nm)	190-900	190-900
Wavelength accuracy (nm)	± 0.2	± 0.2
Wavelength reproducibility (nm)		
Peak separation of repetitive scanning of a UV-Vis line source	< 0.08	< 0.08
Standard deviation of 10 measurements	< 0.02	< 0.02

Varian Cary 5spectrophotometer Manual

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Varian Cary 5spectrophotometer Manual:

Manual of Spectrofluorometric and Spectrophotometric Derivative Experiments Allesia M. Gillespie, Jr.,1993-12-10 Manual of Spectrofluorometric and Spectrophotometric Derivative Experiments is a superb self study manual for technicians and analytical chemists to use for learning how to perform spectrometry and fluorometry experiments It presents step by step procedures for conducting the experiments and it explains how the instruments work and how to interpret the results Each experiment in the book includes **NIOSH Manual of Analytical Methods** John V. Crable,1977

NIOSH Manual of Analytical Methods: NIOSH monitoring methods John V. Crable,1977 *Paint Testing Manual* George G. Sward,1972 **Scientific and Technical Aerospace Reports** ,1989 *Food Additives Analytical Manual* United States. Food and Drug Administration,1983 **Paint Testing Manual** Sward,1972 **Guide to Scientific Instruments** ,1978 **NASA Technical Paper** United States. National Aeronautics and Space Administration,1977

The Extraction, Fractionation and Characterization of Storage Proteins from Lentils (Lens Culinaris) Bethia Anne Margoshes,1985 **Modern Optical Methods of Analysis** Eugene D. Olsen,1975 Introduction and unifying principles Ultraviolet and visible spectrophotometry Infrared spectrophotometry Emission spectroscopy Flame photometry atomic absorption spectroscopy and atomic fluorescence spectroscopy Reman spectroscopy Microwave spectroscopy Fluorometry and phosphorimetry Refractometry and interferometry Spectropolarimetry and circular dichroism spectrometry

Technical Reports Awareness Circular : TRAC. ,1989 World Congress on Medical Physics and Biomedical Engineering 2018 Lenka Lhotska,Lucie Sukupova,Igor Lacković,Geoffrey S. Ibbott,2018-05-29 This book vol 3 presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics a triennially organized joint meeting of medical physicists biomedical engineers and adjoining health care professionals Besides the purely scientific and technological topics the 2018 Congress will also focus on other aspects of professional involvement in health care such as education and training accreditation and certification health technology assessment and patient safety The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field

The Australasian Engineer ,1967 *Canadian Journal of Chemistry* ,2002 Visible Absorbance Spectra Franklin H. Farmer,1983 The concentration and composition of phytoplankton populations are measured by an optical method which can be used either in situ or remotely This method is based upon the in vivo light absorption characteristics of phytoplankton To provide a data base for testing assumptions relative to the proposed method visible absorbance spectra of pure cultures of 20 marine phytoplankton were obtained under laboratory conditions *Visible Absorbance Spectra: A Basis for in Situ and Passive Remote Sensing of Phytoplankton Concentration and Community Composition* ,1983 Industrial Research ,1967 Science ,1972 Aspects of Brazilian Floristic Diversity Maria Franco Trindade Medeiros,Bárbara de Sá

Haiad,2022-10-30 Aspects of Brazilian Floristic Diversity From Botany to Traditional Communities offers a unique approach in floristic diversity of the Neotropical region specifically encompassing the Brazilian flora This volume combines both theoretical and applied aspects of scientific making knowledge in different perspectives of Botanical Science In this volume botanical specialists discuss the many different approaches of taxonomic reproductive ecological and ethnobotanical aspects of Brazilian floristic diversity thereby enlightening the global interest in Neotropical species in particular those from the Brazilian territory The book addresses relevant questions from many points of view including anatomy reproduction palinology conservation and ethnobotany creating an in depth perception of the flora in its complexity constitution The book provides a comprehensive outlook on Botany Sciences considering the history and traditional knowledge of plants and relating it to contemporary problems and concerns of flora conservation today With this current perspective this book reaches a vast audience from the research lines of Botany and encompasses a broader and interdisciplinary understanding of Aspects of Brazilian Floristic Diversity

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