

siemens clinitek status analyzer manual

siemens clinitek status analyzer manual serves as an essential guide for users seeking to operate, maintain, and troubleshoot the Siemens Clinitek Status Analyzer effectively. This manual provides detailed instructions on the device's setup, functionality, and routine care, ensuring accurate and reliable urinalysis results. Understanding the nuances of the Siemens Clinitek instrument through the manual improves laboratory efficiency and patient care. The document covers key aspects such as device specifications, operational procedures, quality control, and error handling. Whether for clinical laboratory technicians or healthcare professionals, familiarity with the Siemens Clinitek Status Analyzer manual enhances the ability to maximize the analyzer's diagnostic potential. This article will explore the critical sections of the manual, highlighting important features, usage tips, and maintenance protocols. The following table of contents outlines the main topics covered for easy navigation through the Siemens Clinitek Status Analyzer manual.

- Overview of Siemens Clinitek Status Analyzer
- Operating Instructions
- Quality Control and Calibration
- Troubleshooting and Error Messages
- Maintenance and Cleaning Procedures
- Technical Specifications

Overview of Siemens Clinitek Status Analyzer

The Siemens Clinitek Status Analyzer is a compact, user-friendly device designed for rapid urinalysis testing. The manual provides an introduction to the analyzer's primary functions, features, and intended applications. It emphasizes the analyzer's capability to deliver precise, automated results for multiple urine parameters, including glucose, protein, pH, and ketones. The manual outlines the importance of using compatible test strips and explains the analyzer's compatibility with various Siemens reagents. Additionally, it describes the device's interface, including the display screen, keypad, and strip port, highlighting the ease of use for clinical staff. Understanding these basic elements is crucial before proceeding to operational steps.

Device Features and Benefits

The manual details the advanced features of the Siemens Clinitek Status Analyzer, such as rapid analysis time, minimal sample volume requirement, and built-in quality control checks. It also discusses the device's portability and suitability for point-of-care testing environments. The analyzer supports multiple languages and includes options for customized settings, allowing laboratories to tailor tests according to their workflow. Moreover, the manual explains how the device stores test

results and includes connectivity options for data transfer and integration with laboratory information systems.

Intended Use and Safety Information

Safety and proper usage guidelines form a critical section of the manual. It instructs users on safe handling of biological samples and proper disposal of used test strips. The manual advises on personal protective equipment (PPE) requirements and provides warnings about electrical safety and device operation. It emphasizes the importance of following manufacturer recommendations to prevent contamination, inaccurate results, or device damage.

Operating Instructions

The Siemens Clinitek Status Analyzer manual provides step-by-step instructions for performing urinalysis tests. This section ensures users understand how to correctly prepare the device and samples for testing to achieve optimal results. It covers powering the device, navigating the menu system, and conducting individual tests using Siemens test strips.

Device Startup and Calibration

Before performing tests, the manual instructs users to power on the analyzer and allow it to initialize. It details the calibration process, which may involve running control strips or following prompts displayed on the screen. This ensures the analyzer is properly adjusted for accurate measurements. Users are guided through selecting the appropriate test strip type and confirming settings on the device interface.

Performing a Test

The manual describes the procedure for applying a urine sample to the test strip and inserting it into the analyzer. It emphasizes timing, such as the appropriate waiting period for the strip to develop before analysis. The display will show test results, which can be printed or saved depending on the model. The manual also addresses how to interpret results, including understanding numerical values and color-coded indicators.

Data Management

Data storage and retrieval functions are outlined to help users maintain accurate records. The manual explains how results are logged internally and how to export data for further analysis or reporting. It may include instructions for connecting the analyzer to external devices or laboratory information systems via USB or network connections.

Quality Control and Calibration

Maintaining test accuracy is vital, and the Siemens Clinitek Status Analyzer manual dedicates a section to quality control procedures. It guides users on performing routine checks to verify the analyzer's performance and reliability. Regular calibration and control testing minimize the risk of erroneous results and non-compliance with laboratory standards.

Control Strips and Frequency

The manual recommends specific control strips designed for use with the Siemens Clinitek Status Analyzer. It advises on the frequency of performing control tests, typically daily or before patient testing sessions. This ensures consistent analyzer functionality and identifies potential issues early.

Calibration Procedures

Detailed calibration instructions include running control materials, adjusting settings, and documenting outcomes. The manual emphasizes following manufacturer guidelines strictly to maintain compliance with regulatory requirements. It also explains when recalibration is necessary, such as after device maintenance or software updates.

Record Keeping and Compliance

Users are instructed to maintain thorough records of quality control activities, including test dates, results, and corrective actions if needed. The manual highlights the importance of documentation for audit purposes and accreditation compliance within clinical laboratories.

Troubleshooting and Error Messages

The Siemens Clinitek Status Analyzer manual provides comprehensive troubleshooting advice to resolve common operational issues. Understanding error messages and their resolutions helps minimize downtime and ensures continuous accurate testing.

Common Error Codes

The manual lists typical error codes that may appear on the analyzer display, explaining their meanings and corrective steps. For example, errors related to strip insertion, sample volume, or device malfunction are addressed with clear instructions for user intervention or service calls.

Diagnostic Procedures

Step-by-step diagnostic guidelines assist users in isolating problems. This may include checking power supply, cleaning sensor areas, or verifying the expiration date of test strips. The manual encourages systematic troubleshooting to avoid unnecessary repairs or replacements.

When to Contact Technical Support

In cases where problems persist, the manual advises contacting Siemens technical support or authorized service centers. It outlines situations requiring professional maintenance or hardware replacement, ensuring user safety and device integrity.

Maintenance and Cleaning Procedures

Proper maintenance is crucial for the longevity and reliability of the Siemens Clinitek Status Analyzer. The manual details routine cleaning and care instructions to prevent contamination and mechanical issues.

Daily and Periodic Cleaning

The manual instructs on cleaning the exterior surfaces, strip port, and sample application areas using recommended materials and disinfectants. Daily cleaning routines help maintain hygiene standards and prevent cross-contamination between samples.

Preventive Maintenance

Periodic checks of device components, battery status, and software updates are included in the maintenance section. The manual suggests schedules for preventive maintenance to reduce unexpected failures and maintain optimal performance.

Storage and Handling

Guidelines for proper storage of the analyzer and consumables are provided to preserve device functionality. This includes temperature and humidity conditions as well as handling precautions to avoid damage during transportation or idle periods.

Technical Specifications

The Siemens Clinitek Status Analyzer manual concludes with a comprehensive list of technical specifications. This section provides detailed information about the device's hardware, software, and performance characteristics.

Physical Dimensions and Weight

The manual specifies the size and weight of the analyzer, highlighting its compact design suitable for various clinical settings. This information assists in planning for device placement and mobility.

Power Requirements and Battery Life

Details about electrical input specifications, battery type, and expected battery life are included. Understanding these parameters ensures proper power management and uninterrupted operation.

Performance Metrics

Accuracy, precision, and analytical range for various urine parameters are provided to inform users about the device's diagnostic capabilities. Additionally, environmental operating conditions such as temperature and humidity ranges are specified to optimize device function.

Supported Test Strips and Consumables

The manual lists compatible test strips and recommended consumables, ensuring users select appropriate materials for accurate testing. It also addresses storage and handling requirements for these consumables to maintain their integrity.

- Compact and portable design
- Rapid analysis time (typically under 1 minute)
- Supports multiple urine parameters
- Internal memory for storing test results
- Connectivity options for data transfer
- User-friendly interface with display screen
- Comprehensive quality control features

Frequently Asked Questions

What is the Siemens Clinitek Status Analyzer manual used for?

The Siemens Clinitek Status Analyzer manual provides detailed instructions on how to operate, maintain, and troubleshoot the Clinitek Status urine chemistry analyzer.

Where can I download the Siemens Clinitek Status Analyzer

manual?

You can download the Siemens Clinitek Status Analyzer manual from the official Siemens Healthineers website or authorized medical equipment distributor portals.

How do I perform a quality control check using the Clinitek Status Analyzer manual?

The manual outlines step-by-step procedures for performing quality control checks, including preparing control solutions, running control tests, and interpreting results to ensure the analyzer is functioning correctly.

What troubleshooting tips are included in the Siemens Clinitek Status Analyzer manual?

The manual includes troubleshooting tips such as addressing common error codes, resolving display issues, handling sample loading problems, and guidance on when to contact technical support.

Does the Siemens Clinitek Status Analyzer manual include maintenance schedules?

Yes, the manual provides recommended maintenance schedules, including routine cleaning, calibration, and parts replacement to ensure optimal analyzer performance.

How do I calibrate the Siemens Clinitek Status Analyzer according to the manual?

Calibration instructions in the manual guide users through the process of using calibration solutions or strips, entering calibration mode, and confirming calibration results for accurate measurements.

Is there a section in the manual about interpreting test results from the Clinitek Status Analyzer?

Yes, the manual contains detailed information on how to interpret the color-coded or numeric results generated by the analyzer for various urine parameters.

What safety precautions does the Siemens Clinitek Status Analyzer manual recommend?

The manual recommends safety precautions such as wearing protective gloves, handling samples carefully to avoid contamination, proper disposal of biohazard materials, and following electrical safety guidelines.

Can the Siemens Clinitek Status Analyzer manual help with

software updates?

The manual typically includes instructions or references on how to update the analyzer software or firmware, either via USB or network connections, depending on the model.

How do I contact Siemens support if I have issues not resolved by the Clinitek Status Analyzer manual?

The manual provides contact information for Siemens technical support, including phone numbers, email addresses, and website links for further assistance.

Additional Resources

1. *Siemens Clinitek Status Analyzer User Guide*

This comprehensive manual offers detailed instructions on operating the Siemens Clinitek Status Analyzer. It covers everything from initial setup and calibration to troubleshooting common issues. Ideal for laboratory technicians, it ensures accurate and efficient urinalysis testing.

2. *Practical Guide to Urinalysis with Siemens Clinitek*

Focused on practical applications, this book provides step-by-step procedures for conducting urinalysis using the Siemens Clinitek analyzer. It includes tips for sample preparation, interpreting results, and maintaining the device. The guide is perfect for clinical lab professionals seeking to optimize workflow.

3. *Laboratory Instrumentation: Siemens Clinitek Status Analyzer Edition*

This book explores the technology behind the Siemens Clinitek Status Analyzer and its role in modern laboratory diagnostics. It explains the principles of test strip chemistry and the analyzer's optical reading system. Readers gain insight into how this instrument improves diagnostic accuracy.

4. *Troubleshooting and Maintenance of Siemens Clinitek Analyzers*

Designed for maintenance personnel and users alike, this manual details common errors and recommended fixes for the Siemens Clinitek Status Analyzer. It includes routine maintenance schedules and replacement parts guidance. This resource helps extend the lifespan and reliability of the device.

5. *Clinical Urinalysis: Techniques Using Siemens Clinitek Status*

This text bridges clinical knowledge with practical instrument usage, focusing on performing urinalysis tests using the Siemens Clinitek Status Analyzer. It discusses clinical significance of various parameters and how to accurately interpret analyzer outputs. A valuable resource for medical technologists.

6. *Siemens Clinitek Status Analyzer: Calibration and Quality Control*

Ensuring accurate test results requires proper calibration and quality control, topics extensively covered in this book. It guides users through calibration procedures, quality control protocols, and documentation requirements specific to the Siemens Clinitek Status Analyzer. The book supports compliance with laboratory standards.

7. *Advances in Point-of-Care Testing: Featuring Siemens Clinitek Status*

This book reviews the latest advancements in point-of-care diagnostic technologies, highlighting the

Siemens Clinitek Status Analyzer. It discusses how portable analyzers are transforming patient care and laboratory practices. Readers learn about integration, data management, and future trends.

8. Comprehensive Manual for Siemens Clinical Diagnostic Devices

While covering a range of Siemens diagnostic instruments, this manual dedicates significant sections to the Clinitek Status Analyzer. It offers comparative insights, operational tips, and case studies to enhance understanding and application in clinical settings. A must-have for healthcare institutions using Siemens equipment.

9. Understanding Urinalysis Results with Siemens Clinitek Status

This book helps healthcare professionals interpret the data generated by the Siemens Clinitek Status Analyzer. It explains the clinical implications of test findings and common patterns seen in various diseases. The guide aids in making informed decisions based on urinalysis reports.

Siemens Clinitek Status Analyzer Manual

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Siemens Clinitek Status Analyzer Manual: A Comprehensive Guide to Operation, Maintenance, and Troubleshooting

This ebook provides a thorough understanding of the Siemens Clinitek Status analyzer, covering its operation, maintenance procedures, troubleshooting techniques, and relevant safety guidelines, equipping users with the knowledge to effectively utilize this crucial diagnostic tool in clinical settings.

Ebook Title: Mastering the Siemens Clinitek Status Analyzer: A Practical Guide for Healthcare Professionals

Contents Outline:

Introduction: Understanding the Siemens Clinitek Status and its applications in urinalysis.

Chapter 1: Setting Up and Calibrating the Analyzer: Detailed steps for installation, connection, and initial calibration procedures.

Chapter 2: Performing Urinalysis Tests: Step-by-step instructions for operating the analyzer, including sample preparation and test execution.

Chapter 3: Interpreting Test Results: Guidance on understanding and interpreting the Clinitek Status's output, recognizing normal and abnormal values, and identifying potential clinical implications.

Chapter 4: Maintenance and Cleaning Procedures: Comprehensive instructions on regular maintenance tasks, cleaning protocols, and preventative measures to ensure optimal analyzer performance.

Chapter 5: Troubleshooting Common Issues: A systematic approach to resolving common technical problems, including error codes and their solutions.

Chapter 6: Quality Control and Assurance: Implementing effective quality control measures to guarantee accurate and reliable test results.

Chapter 7: Safety Guidelines and Regulations: A discussion of relevant safety precautions, regulatory compliance, and handling of potentially hazardous materials.

Conclusion: Summary of key learnings and recommendations for continued proficient use of the Siemens Clinitek Status analyzer.

Introduction: This section introduces the Siemens Clinitek Status analyzer, highlighting its importance in rapid urinalysis within healthcare settings. It will cover the analyzer's key features, benefits, and the overall purpose of this manual. This section will also establish the target audience (healthcare professionals, lab technicians, etc.).

Chapter 1: Setting Up and Calibrating the Analyzer: This chapter provides a detailed, step-by-step guide on setting up the Siemens Clinitek Status analyzer. It will cover unpacking, connecting to power and network (if applicable), initial software configuration, and performing the necessary calibrations using the provided reagents and controls, including troubleshooting potential setup issues.

Chapter 2: Performing Urinalysis Tests: This chapter focuses on the practical execution of urinalysis tests using the Siemens Clinitek Status. It will cover sample preparation techniques (e.g., appropriate dilution, handling), proper insertion of the test strips, initiating the analysis process, and understanding the analyzer's display interface. It also addresses the importance of following the manufacturer's instructions precisely.

Chapter 3: Interpreting Test Results: This chapter explains how to interpret the results displayed by the Clinitek Status analyzer. It will cover understanding the different parameters measured (e.g., leukocytes, nitrites, protein, glucose), normal reference ranges, identifying abnormal values, and correlating findings with potential clinical conditions. The chapter might include tables and examples to aid interpretation.

Chapter 4: Maintenance and Cleaning Procedures: This chapter details the regular maintenance and cleaning required for optimal performance and longevity of the analyzer. It includes instructions on cleaning the instrument's exterior and internal components, replacing worn parts, managing waste, and performing preventative maintenance checks. Regular maintenance schedules are also provided.

Chapter 5: Troubleshooting Common Issues: This chapter serves as a comprehensive troubleshooting guide. It addresses common errors encountered during operation, provides clear explanations of error codes, and offers step-by-step solutions. Flowcharts or decision trees might be incorporated for easier navigation of troubleshooting steps.

Chapter 6: Quality Control and Assurance: This chapter emphasizes the importance of quality control in ensuring accurate and reliable results. It will explain the different types of quality control procedures, such as using control materials and establishing proficiency testing programs, as well as interpreting quality control data. Regulatory compliance considerations are also discussed.

Chapter 7: Safety Guidelines and Regulations: This chapter covers crucial safety guidelines related to the use and maintenance of the Siemens Clinitek Status analyzer. It includes instructions on handling potentially hazardous materials (reagents, samples), adhering to infection control protocols, and following all relevant safety regulations and legal requirements.

Conclusion: This section summarizes the key information covered in the manual, reinforces the importance of proper use and maintenance, and provides recommendations for continued learning and resources for staying updated on new developments related to the Siemens Clinitek Status analyzer and urinalysis best practices.

SEO Optimized Headings (H2-H6 can be used to break down further):

- # Siemens Clinitek Status Analyzer: A Deep Dive into Urinalysis
- ## Setting Up Your Siemens Clinitek Status Analyzer
- ### Connecting and Calibrating the Device
- #### Troubleshooting Initial Setup Problems
- ## Mastering Urinalysis Procedures with the Clinitek Status
- ### Sample Preparation and Test Execution
- #### Understanding the Analyzer's Display
- ## Deciphering Your Clinitek Status Results
- ### Identifying Normal and Abnormal Values
- #### Clinical Implications of Test Results
- ## Maintaining Your Siemens Clinitek Status for Optimal Performance
- ### Regular Cleaning and Maintenance
- #### Preventative Maintenance Strategies
- ## Troubleshooting Common Siemens Clinitek Status Issues
- ### Error Codes and Their Solutions
- #### Step-by-Step Troubleshooting Guide
- ## Ensuring Quality Control and Regulatory Compliance
- ### Implementing Effective Quality Control Measures
- #### Adhering to Regulatory Guidelines
- ## Safety Precautions and Handling Procedures
- ### Safe Reagent Handling and Disposal
- #### Infection Control Protocols

(Remember to incorporate relevant keywords throughout the body of the ebook, such as "Siemens Clinitek Status," "urinalysis," "point-of-care testing," "POC testing," "leukocytes," "nitrites," "protein," "glucose," "ketones," "blood," "pH," "specific gravity," "quality control," "maintenance," "calibration," "troubleshooting," "error codes," and many more, naturally within the context.)

9 Unique FAQs:

1. How often should I calibrate my Siemens Clinitek Status analyzer?
2. What type of samples can be used with the Siemens Clinitek Status?
3. What are the common error codes and their solutions?
4. How do I interpret the results of a Clinitek Status urinalysis strip?
5. What are the recommended cleaning and maintenance procedures?
6. What safety precautions should I take when using the Siemens Clinitek Status?

7. How can I ensure the accuracy of my test results?
8. Where can I find replacement parts and reagents for the Clinitek Status?
9. What is the warranty period for the Siemens Clinitek Status analyzer?

9 Related Articles:

1. Siemens Clinitek Status vs. Other Urinalysis Analyzers: A comparative analysis of different urinalysis analyzers, highlighting the advantages and disadvantages of the Siemens Clinitek Status.
2. Advanced Urinalysis Techniques and Interpretation: An exploration of advanced techniques used in urinalysis and the interpretation of complex results.
3. Point-of-Care Testing (POCT) in Urology: A review of the role of POCT devices, like the Clinitek Status, in urological practice.
4. Quality Control in Clinical Laboratories: A comprehensive guide to quality control practices in clinical laboratory settings, emphasizing urinalysis testing.
5. Infection Control in Urinalysis Testing: Best practices for infection control during sample collection and handling for urinalysis.
6. Common Urinary Tract Infections (UTIs) and Their Diagnosis: An overview of common UTIs and the diagnostic role of urinalysis.
7. Siemens Clinitek Status Analyzer Troubleshooting: A Detailed Guide: An in-depth guide focused solely on troubleshooting the Siemens Clinitek Status analyzer.
8. Maintaining the Siemens Clinitek Status: A Step-by-Step Guide: A guide dedicated to the maintenance and cleaning of the analyzer.
9. Regulatory Compliance for Clinical Laboratories: A discussion on regulatory requirements relevant to clinical labs and their urinalysis testing processes.

This ebook structure, with its SEO-optimized headings and keyword integration, aims to attract a broad audience seeking information on the Siemens Clinitek Status analyzer. Remember to use relevant images and diagrams throughout the ebook to enhance user experience and comprehension. Regular updates with new research and information will maintain the ebook's relevance and SEO value.

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easy-to-follow format: Fundamental Concepts: basic information related to tests and procedures. CLIA Waived Procedures: step-by-step instructions for CLIA waived tests. Advanced Concepts: further application of basic knowledge and skills towards a higher level of critical thinking and decision making, such as handling non-CLIA waived tests. Procedure boxes provide clear step-by-step instructions along with numerous full-color photos and illustrations. Key terms are defined and reinforced within each chapter. Common abbreviations associated with CLIA waived testing are cited at the beginning of chapters. 7-10 review questions conclude each chapter, to reinforce learning. A companion Evolve website includes various activities and exercises to enhance learning with problem-solving scenarios. A workbook matches the chapters in the textbook, offering activities and exercises to reinforce laboratory concepts, terminology, and procedures. Skills sheets help you work through the competency-based procedures, and meet government standards for good laboratory practice. Sold separately. Over 60 new photographs and drawings clarify topics and show examples of laboratory specimens so you will be able to identify them on the job. New chapter on toxicology. More extensive coverage of working with the microscope prepares you for the lab. Updated, expanded information about quality control and quality assurance provides relevant information so you can accurately and effectively perform in the lab. Updates on proper collection and processing of urine specimens, microbiology specimens, blood capillary and venipuncture specimens, which includes new urine culture using vacutainer system, new drawings for urine and influenza specimen collections, and the latest order of blood draw including the plasma separator tube, ensure that you have the most current information. Five new procedures with corresponding skill check-off sheets help you understand the most up-to-date protocols: Clinitek Analyzer Standard Hematocrit INRatio New A1c+ Ki+ iFOB method for fecal occult blood

siemens clinitek status analyzer manual: Graff's Textbook of Urinalysis and Body Fluids Lillian Mundt, Kristy Shanahan, 2020-06-15 Graff's Textbook of Urinalysis and Body Fluids, Third Edition features short, easy-to-digest chapters, and an extensive array of built-in study aids to help you master key content.

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Electrocardiography and Spirometry chapter focuses on the role of the medical assistant and the lab technician in these diagnostic tests. - NEW content updates the text with a focus on new technology and significant advances made in recent years, including the latest CLIA waived test methods.

siemens clinitek status analyzer manual: Graff's Textbook of Routine Urinalysis and Body Fluids Lillian A. Mundt, Kristy Shanahan, 2010-02-01 Newly updated, Graff's Textbook of Urinalysis and Body Fluids is the best urinalysis reference for laboratory students and professionals. In its Second Edition, this practical book retains its full-color images and top-notch coverage of urinalysis principles while significantly updating the content, broadening the scope to include new material on body fluids, providing more information on safety and quality assurance, and adding textbook features such as objectives, case studies, and study questions.

siemens clinitek status analyzer manual: Point-of-care testing Peter Luppa, Ralf Junker, 2018-07-18 The underlying technology and the range of test parameters available are evolving rapidly. The primary advantage of POCT is the convenience of performing the test close to the patient and the speed at which test results can be obtained, compared to sending a sample to a laboratory and waiting for results to be returned. Thus, a series of clinical applications are possible that can shorten the time for clinical decision-making about additional testing or therapy, as delays are no longer caused by preparation of clinical samples, transport, and central laboratory analysis. Tests in a POC format can now be found for many medical disciplines including endocrinology/diabetes, cardiology, nephrology, critical care, fertility, hematology/coagulation, infectious disease and microbiology, and general health screening. Point-of-care testing (POCT) enables health care personnel to perform clinical laboratory testing near the patient. The idea of conventional and POCT laboratory services presiding within a hospital seems contradictory; yet, they are, in fact, complementary: together POCT and central laboratory are important for the optimal

functioning of diagnostic processes. They complement each other, provided that a dedicated POCT coordination integrates the quality assurance of POCT into the overall quality management system of the central laboratory. The motivation of the third edition of the POCT book from Lippa/Junker, which is now also available in English, is to explore and describe clinically relevant analytical techniques, organizational concepts for application and future perspectives of POCT. From descriptions of the opportunities that POCT can provide to the limitations that clinician's must be cautioned about, this book provides an overview of the many aspects that challenge those who choose to implement POCT. Technologies, clinical applications, networking issues and quality regulations are described as well as a survey of future technologies that are on the future horizon. The editors have spent considerable efforts to update the book in general and to highlight the latest developments, e.g., novel POCT applications of nucleic acid testing for the rapid identification of infectious agents. Of particular note is also that a cross-country comparison of POCT quality rules is being described by a team of international experts in this field.

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siemens clinitek status analyzer manual: *Holographic Sensors* Ali Kemal Yetisen, 2014-12-03 This thesis presents a theoretical and experimental approach for the rapid fabrication, optimization and testing of holographic sensors for the quantification of pH, organic solvents, metal cations, and glucose in solutions. Developing non-invasive and reusable diagnostics sensors that can be easily manufactured will support the monitoring of high-risk individuals in any clinical or point-of-care setting. Sensor fabrication approaches outlined include silver-halide chemistry, laser ablation and photopolymerization. The sensors employ off-axis Bragg diffraction gratings of ordered silver nanoparticles and localized refractive index changes in poly (2-hydroxyethyl methacrylate) and polyacrylamide films. The sensors exhibited reversible Bragg peak shifts, and diffracted the spectrum of narrow-band light over the wavelength range $\lambda_{\text{peak}} \approx 495\text{-}1100\text{ nm}$. Clinical trials of glucose sensors in the urine samples of diabetic patients demonstrated that they offer superior performance compared to commercial high-throughput urinalysis devices. Lastly, a generic smartphone application to quantify colorimetric tests was developed and tested for both Android and iOS operating systems. The sensing platform and smartphone application may have implications for the development of low-cost, reusable and equipment-free point-of-care diagnostic devices.

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