

quest lab tubes

quest lab tubes are an essential component in modern laboratory settings, facilitating the collection, transport, and analysis of a wide variety of biological samples. These tubes are designed to meet rigorous standards of safety, reliability, and precision, making them indispensable in clinical laboratories, research institutions, and diagnostic centers worldwide. Whether for blood collection, urine analysis, or other specimen handling, quest lab tubes provide a versatile and efficient solution that ensures sample integrity and accurate test results. In this comprehensive guide, we explore everything you need to know about quest lab tubes, including their types, features, benefits, and how to choose the right ones for your laboratory needs.

Understanding Quest Lab Tubes: An Overview

Quest lab tubes are specialized containers manufactured to support various laboratory procedures. They come in a variety of sizes, shapes, and materials, each tailored to specific testing requirements. These tubes are often made from high-quality plastics such as polypropylene or polyethylene, which are durable, chemically resistant, and safe for biological samples.

Key features of quest lab tubes include:

- Leak-proof design to prevent sample contamination or spillage.
- Graduated markings for accurate volume measurement.
- Sterility to avoid cross-contamination.
- Compatibility with laboratory automation systems.
- Additives such as anticoagulants or clot activators, depending on the test.

Types of Quest Lab Tubes

Lab tubes are categorized based on their intended use, physical design, and the additives they contain. Here are some of the most common types:

Blood Collection Tubes

These are perhaps the most recognized quest lab tubes, used primarily for blood sampling. They are further classified into:

- Serum Tubes: Contain no anticoagulants, allowing blood to clot and serum to be separated.
- Plasma Tubes: Contain anticoagulants like EDTA, citrate, or heparin to prevent clotting.
- Gel Separator Tubes: Include a separating gel that forms a barrier between serum or plasma and blood cells during centrifugation.

Urine Collection Tubes

Designed with wide mouths and leak-proof caps, these tubes facilitate the collection and storage of urine samples. They often feature preservatives depending on the testing needs.

Specialized Tubes

- Transport Tubes: For safe transportation of samples between facilities.
- PCR Tubes: For molecular testing requiring minimal contamination.
- Cryogenic Tubes: Constructed for long-term storage at ultra-low temperatures.

Features and Benefits of Quest Lab Tubes

Choosing high-quality quest lab tubes offers numerous advantages:

1. Sample Integrity and Preservation

Properly designed tubes prevent contamination, reduce sample degradation, and maintain the stability of biological specimens. Features such as tight seals and inert materials ensure samples remain unaltered during storage and transport.

2. Compatibility with Laboratory Equipment

Quest lab tubes are compatible with a wide range of centrifuges, analyzers, and automation systems, enabling seamless integration into existing workflows.

3. Safety and Compliance

Manufactured according to international standards (such as ISO, CLSI, and FDA), quest lab tubes adhere to safety regulations, including leak-proof designs and suitable labeling.

4. Ease of Use

Ergonomic features like wide mouths, smooth edges, and clear graduations make sample collection and measurement straightforward, minimizing errors.

5. Cost-Effectiveness

Durability and reliability reduce the need for frequent replacements, and bulk purchasing options often lead to cost savings.

Choosing the Right Quest Lab Tubes

Selecting the appropriate lab tubes depends on multiple factors. Here are key considerations:

1. Sample Type and Volume

- Determine whether the sample is blood, urine, or other biological fluids.
- Consider the required volume to ensure efficient collection without wastage.

2. Test Requirements

- Identify whether the test requires serum, plasma, or whole blood.
- Check for specific additives or preservatives needed for accurate results.

3. Compatibility with Equipment

- Ensure the tubes are compatible with your centrifuges, analyzers, and storage systems.

4. Storage and Transportation Conditions

- For long-term storage, opt for cryogenic tubes.
- For transport, select leak-proof and clearly labeled tubes.

5. Regulatory Standards

- Confirm that the tubes meet relevant safety and quality standards for your region.

Best Practices for Using Quest Lab Tubes

Proper handling and usage of quest lab tubes are crucial for obtaining reliable results:

1. **Proper Labeling:** Clearly label tubes with patient information, date, and test details.
2. **Sample Collection:** Follow standardized procedures to avoid hemolysis or contamination.

3. **Sealing and Transport:** Ensure caps are tightly secured, especially during transport.
4. **Centrifugation:** Follow recommended speeds and durations for separating serum or plasma.
5. **Storage:** Store samples at appropriate temperatures to preserve integrity.

Maintenance and Disposal of Quest Lab Tubes

Proper disposal of used lab tubes is essential for safety and environmental compliance:

- Use designated sharps containers or biohazard disposal bins.
- Follow local regulations for biomedical waste management.
- Regularly inspect tubes for cracks or defects before use.
- Clean reusable tubes thoroughly if applicable, adhering to sterilization protocols.

Innovations and Future Trends in Quest Lab Tubes

The field of laboratory consumables is continually evolving, with innovations aimed at improving efficiency, safety, and sample integrity. Some emerging trends include:

- Smart Tubes: Incorporation of barcodes and RFID tags for seamless tracking.
- Enhanced Additives: Development of more precise anticoagulants and preservatives.
- Eco-Friendly Materials: Use of biodegradable plastics to reduce environmental impact.
- Automation-Ready Designs: Compatibility with robotic systems for high-throughput testing.

Where to Purchase Quality Quest Lab Tubes

Reliability begins with sourcing from reputable suppliers. When purchasing quest lab tubes, consider factors such as:

- Certification and compliance with safety standards.
- Availability of a wide product range.
- Customer support and technical assistance.
- Competitive pricing and bulk purchase discounts.

Popular suppliers include global laboratory consumable manufacturers, medical supply distributors, and specialized online platforms dedicated to laboratory equipment.

Conclusion

Quest lab tubes are fundamental to the success of laboratory diagnostics and research. Their diverse range, combined with advanced features, ensures that biological samples are handled safely and accurately from collection to analysis. By understanding the different types of quest lab tubes, their features, and best practices for use, laboratories can optimize their workflows, improve the quality of test results, and maintain compliance with safety standards. As technology advances, quest lab tubes will continue to evolve, offering even greater efficiency, safety, and environmental sustainability. Whether you are setting up a new laboratory or upgrading your existing facilities, investing in high-quality quest lab tubes is a critical step toward achieving reliable and accurate laboratory outcomes.

Frequently Asked Questions

What are Quest Lab tubes used for in medical testing?

Quest Lab tubes are specialized collection tubes used to collect, transport, and process various blood, urine, or other specimen samples for laboratory testing and diagnostics.

What types of tubes does Quest Labs typically offer?

Quest Labs offers a variety of tubes including serum tubes, plasma tubes, EDTA tubes, citrate tubes, and other specialized containers designed for specific testing requirements.

How do I know which Quest Lab tube to use for a particular test?

The choice of tube depends on the test being performed; your healthcare provider or laboratory staff will specify the appropriate tube type based on the test requirements, such as additive presence, tube color, and volume.

Are Quest Lab tubes compatible with automated laboratory analyzers?

Yes, most Quest Lab tubes are designed to be compatible with automated analyzers, ensuring efficient processing and accurate results in high-throughput laboratory settings.

What are the safety considerations when handling Quest Lab tubes?

Handle all lab tubes with gloves, avoid breakage, properly label samples, and follow standard biosafety protocols to prevent contamination and exposure to potentially infectious materials.

Can Quest Lab tubes be reused or are they single-use?

Quest Lab tubes are single-use to prevent cross-contamination and ensure the integrity of the samples. Reusing them is not recommended.

How should I properly store Quest Lab tubes before use?

Store Quest Lab tubes in a clean, dry environment at recommended temperatures, typically room temperature or refrigerated if specified, and avoid exposure to direct sunlight or extreme conditions.

Are Quest Lab tubes compatible with all laboratory brands and equipment?

Most Quest Lab tubes are designed to be compatible with standard laboratory equipment, but it's important to verify compatibility with your specific analyzers and collection systems.

What innovations are being made in Quest Lab tube designs?

Quest Labs is continuously improving tube designs to enhance sample stability, improve user safety, incorporate new additives for advanced testing, and optimize compatibility with automation technologies.

Additional Resources

Quest Lab Tubes are a fundamental component of laboratory diagnostics, playing a critical role in the collection, transport, and analysis of biological specimens. These tubes are designed to ensure sample integrity, prevent contamination, and facilitate accurate testing across a wide range of medical and research settings. As laboratories continue to evolve with advancing technology, the importance of reliable, sterile, and versatile lab tubes like those offered by Quest Diagnostics has become more pronounced. This article explores the features, varieties, applications, and considerations associated with Quest lab tubes, providing a comprehensive overview for professionals and enthusiasts alike.

Overview of Quest Lab Tubes

Quest Diagnostics is renowned for its comprehensive diagnostic testing services and high-quality laboratory supplies. Among its product offerings, lab tubes are vital tools used across clinical, research, and diagnostic laboratories. These tubes come in various sizes, materials, and configurations, tailored to meet specific testing needs. Quest's lab tubes are known for their reliability, quality standards, and compatibility with various laboratory instruments.

The primary role of these tubes is to securely hold biological specimens such as blood, plasma, serum, urine, and other bodily fluids. Proper collection and handling are crucial for accurate diagnostic results, making the choice of the right tube essential. Quest lab tubes are manufactured following rigorous quality control processes to ensure they meet or exceed industry standards.

Types of Quest Lab Tubes

Quest offers a diverse range of lab tubes, each designed for specific testing procedures.

Understanding the different types helps laboratory professionals select the appropriate tube for their needs.

Serum Collection Tubes

Serum tubes are designed to collect blood samples that will be processed to obtain serum. They typically contain clot activators to facilitate coagulation.

- Features:
 - Often come with or without a gel separator.
 - Available with various stopper colors indicating different additives.
 - Clear or frosted glass/polypropylene for easy sample visualization.
- Uses:
 - Chemistry testing
 - Serology
 - Immunology

Plasma Collection Tubes

These tubes are used for plasma separation, often containing anticoagulants such as EDTA, heparin, or citrate.

- Features:
 - Contain specific anticoagulants depending on intended test.
 - May include gel separators for plasma isolation.
 - Designed to prevent clotting during processing.
- Uses:
 - Hematology
 - Coagulation studies
 - Molecular testing

Urine Collection Tubes

Specialized tubes designed for urine sample collection and preservation.

- Features:
 - Sterile and leak-proof.
 - Sometimes include preservatives for specific testing needs.
 - Graduated for volume measurement.
- Uses:
 - Routine urinalysis
 - Drug testing
 - Microbiological analysis

Other Specialized Tubes

Quest also offers tubes for specific tests and research purposes, such as:

- Rapid serum tubes
- Dried blood spot collection kits
- Transport tubes for delicate specimens

Materials and Design Features

The quality and performance of lab tubes depend heavily on their materials and design features.

Materials Used

Quest lab tubes are predominantly made from high-quality plastics, such as polypropylene, or glass, depending on the application.

- Polypropylene:
 - Durable and shatter-resistant.
 - Suitable for thermal processing.
 - Widely used for sterile and transport tubes.
- Glass:
 - Excellent for visual inspection.
 - Often used for serum separation.

Design Features

- Sterility: All tubes are sterile to prevent contamination.
- Closure options:
 - Snap caps, screw caps, or rubber stoppers.
- Color-coded caps for easy identification of additives.
- Volume markings: Graduated markings for accurate volume measurement.
- Additives: Including clot activators, anticoagulants, or preservatives.
- Gels and separators: For efficient sample separation.

Advantages of Quest Lab Tubes

Using high-quality lab tubes like those from Quest offers several benefits:

- Reliability and Consistency: Manufactured under strict quality controls, ensuring dependable performance.
- Versatility: A wide array of tube types suitable for various tests.
- Compatibility: Designed to work seamlessly with laboratory analyzers and automation systems.
- Sample Integrity: Features like gel separators and anticoagulants help preserve sample quality.

- Ease of Use: Clear markings, color-coding, and ergonomic designs facilitate efficient workflow.
- Sterility and Safety: Ensures samples are not contaminated, reducing testing errors.

Considerations When Choosing Quest Lab Tubes

While Quest lab tubes are generally of high quality, selecting the right type requires consideration of several factors:

- Test Requirements: Different tests require specific additives or tube types.
- Sample Volume: Ensure tubes are appropriately sized for the volume needed.
- Material Compatibility: Consider the compatibility with laboratory instruments and storage conditions.
- Transport Conditions: For samples requiring transport, choose tubes with secure closures and preservatives.
- Regulatory Compliance: Verify that tubes meet local and international standards such as CLSI, FDA, or CE marking.
- Cost-effectiveness: Balance quality with budget constraints, especially in high-volume labs.

Applications of Quest Lab Tubes

Quest lab tubes are utilized across various sectors:

- Clinical Diagnostics: Blood and urine sample collection for routine and specialized tests.
- Research Laboratories: Sample collection for experimental purposes.
- Pharmaceutical Testing: Quality control and drug development research.
- Public Health: Disease surveillance and epidemiological studies.
- Hospital Laboratories: Point-of-care testing and specimen transport.

Pros and Cons of Quest Lab Tubes

Pros:

- High manufacturing standards ensure sample integrity.
- Wide selection of tube types for diverse applications.
- Compatibility with automated systems enhances workflow efficiency.
- Innovations like gel separators improve sample processing.
- User-friendly design features facilitate quick and accurate sample handling.

Cons:

- Cost may be higher compared to generic alternatives.
- Availability may be limited in some regions.
- Over-reliance on specific types may lead to stock shortages if not managed properly.
- Some specialized tubes might require specific handling or storage conditions.

Future Trends and Innovations

As laboratory technologies advance, Quest is likely to continue innovating in lab tube design:

- Integration with Automation: Developing tubes optimized for robotic systems.
- Enhanced Sample Preservation: New preservatives and materials to extend sample stability.
- Environmental Sustainability: Using recyclable materials and eco-friendly manufacturing processes.
- Smart Tubes: Incorporating barcodes or RFID tags for better traceability and data management.

Conclusion

Quest lab tubes are an essential component of modern laboratory diagnostics, offering reliability, versatility, and safety for specimen collection and analysis. Their broad range of types and features makes them suitable for a variety of testing scenarios, from routine blood draws to specialized research. While choosing the right tube involves consideration of test requirements, sample volume, and compatibility, Quest's commitment to quality ensures that laboratories can depend on their products to deliver accurate and consistent results. As the landscape of diagnostics evolves, Quest's ongoing innovations in lab tube technology promise to enhance sample integrity, streamline workflows, and support advancements in medical and scientific research.

Whether you are a laboratory manager, a researcher, or a healthcare professional, understanding the features and applications of Quest lab tubes is crucial in optimizing diagnostic accuracy and operational efficiency. Investing in high-quality lab tubes like those from Quest can significantly impact the quality of laboratory outputs, ultimately benefiting patient care and scientific discovery.

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quest lab tubes: Solved Question Papers of Pathology and Genetics for BSc Nursing ,

quest lab tubes: *Polyphenols in Human Health and Disease* Ronald Ross Watson, Victor R Preedy, Sherma Zibadi, 2013-10-26 Polyphenols in Human Health and Disease documents antioxidant actions of polyphenols in protection of cells and cell organelles, critical for understanding their health-promoting actions to help the dietary supplement industry. The book begins by describing the fundamentals of absorption, metabolism and bioavailability of polyphenols, as well as the effect of microbes on polyphenol structure and function and toxicity. It then examines the role of polyphenols in the treatment of chronic disease, including vascular and cardiac health, obesity and diabetes therapy, cancer treatment and prevention, and more. - Explores neuronal protection by polyphenol metabolites and their application to medical care - Defines modulation of enzyme actions to help researchers see and study polyphenols' mechanisms of action, leading to clinical applications - Includes insights on polyphenols in brain and neurological functions to apply them to the wide range of aging diseases

quest lab tubes: *A New Leaf* Alyson Martin, Nushin Rashidian, 2015-02-03 Two award-winning journalists offer a "cogent, well-sourced and ambitious analysis of the slow decline of cannabis prohibition in the United States" (Kirkus Reviews). In November 2012, voters in Colorado and Washington passed landmark measures to legalize the production and sale of cannabis for social use—a first in the United States and the world. Once vilified as a "gateway drug," cannabis is now

legal for medical use in eighteen states and Washington, DC. Yet the federal government refuses to acknowledge these broader societal shifts. 49.5 percent of all drug-related arrests involve the sale, manufacture, or possession of cannabis. In the first book to explore the new landscape of cannabis in the United States, investigative journalists Alyson Martin and Nushin Rashidian demonstrate how recent cultural and legal developments tie into cannabis's complex history and thorny politics. Reporting from nearly every state with a medical cannabis law, Martin and Rashidian interview patients, growers, doctors, entrepreneurs, politicians, activists, and regulators. A New Leaf moves from the federal cannabis farm at the University of Mississippi to the headquarters of the ACLU to Oregon's World Famous Cannabis Café. The result is a lucid account of how cannabis legalization is changing the lives of millions of Americans and easing the burden of the "war on drugs" both domestically and internationally.

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quest lab tubes: Top 100 Businesses and Economic Outlook, 2007

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quest lab tubes: Rootlines Rikki West, 2025-07-30 Rikki and her sister, Linda, fell out with one another four months ago. They are not speaking when Linda emails that she has lethal abdominal tumors, that her only hope of survival is a total bone marrow replacement. Linda claims Rikki is too old to donate, and explains there's only a slight chance she is a good match anyway—but Rikki refuses to accept that. Despite the wounding between them, Linda's email ignites a wild aspiration in her sister: she will become the perfect donor, the perfect match, with the healthiest, most vigorous cells possible. She rises with intent to heal herself, her sister, and their rootlines, the patterns formed in their family of origin that have quietly shaped their lives. Rikki walks through the science while confronting dogma that limits how mind can transform body. She builds herself into a stem cell factory using Muay Thai kickboxing and vegetarian nutrition. Working through childhood wounds and mental limits with meditation and yoga, she finds her own power, as well as ways to show up for Linda and walk with her from the edge of death to a new life. Together, the two sisters beat the lymphoma—and, as they rediscover the intimacy and love of their innocent childhood, heal

the intertwined roots of their family pain.

quest lab tubes: ForeverQuest: Online Battle Arena - A LitRPG Adventure Alex Maven, 2020-10-22 Trapped in a vintage fantasy reality, he's a sickly dark elf too weak to lift a weapon. Can he win a brutal battle before he's lethally logged out? Temor has been an underdog all his lowly life. Obsessed with old-school gaming, he risks his neck to mine virtual currency for the mob. But after he's arrested and awakens inside a simulated online arena... he'll have to fight to the death or watch his sister perish. Assigned a weakling build in a combat-heavy world with no respawns, Temor relies on his outlandish plans and magical stats to outwit his burly enemies. But with self-aware NPCs, faceless killers, and perilous dungeons standing between him and his sibling, the nerdy smart-aleck plunges headlong toward a permanent game over. Can the scrappy gamer out-class his foes before his health hits zero? ForeverQuest: Online Battle Arena is the page-turning first story in the ForeverQuest LitRPG series. If you like everyman heroes, laugh-out-loud humor, and gripping role-playing adventures, then you'll love Alex Maven's nostalgic quest. Read ForeverQuest to spawn into a nightmare today!

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quest lab tubes: The Premonition: A Pandemic Story Michael Lewis, 2021-05-04 New York Times Bestseller For those who could read between the lines, the censored news out of China was terrifying. But the president insisted there was nothing to worry about. Fortunately, we are still a nation of skeptics. Fortunately, there are those among us who study pandemics and are willing to look unflinchingly at worst-case scenarios. Michael Lewis's taut and brilliant nonfiction thriller pits a band of medical visionaries against the wall of ignorance that was the official response of the Trump administration to the outbreak of COVID-19. The characters you will meet in these pages are as fascinating as they are unexpected. A thirteen-year-old girl's science project on transmission of an airborne pathogen develops into a very grown-up model of disease control. A local public-health officer uses her worm's-eye view to see what the CDC misses, and reveals great truths about American society. A secret team of dissenting doctors, nicknamed the Wolverines, has everything necessary to fight the pandemic: brilliant backgrounds, world-class labs, prior experience with the

pandemic scares of bird flu and swine flu...everything, that is, except official permission to implement their work. Michael Lewis is not shy about calling these people heroes for their refusal to follow directives that they know to be based on misinformation and bad science. Even the internet, as crucial as it is to their exchange of ideas, poses a risk to them. They never know for sure who else might be listening in.

quest lab tubes: Resistant Starch: Advances and Applications in Nutrition for Disease Prevention Hongliang Zeng, Xianyang Bao, Hongmin Dong, 2025-08-11 Resistant starch (RS) is a type of dietary fiber that has garnered significant attention for its potential health benefits and applications in nutrition. It resists digestion in the small intestine and reaches the large intestine, where it undergoes fermentation by gut microbiota. This process produces various beneficial byproducts, such as short-chain fatty acids (SCFAs), which have been linked to numerous health-promoting effects. The unique properties of resistant starch make it an intriguing field of research, particularly regarding its potential role in disease prevention. This special issue aims to explore the advances and applications of resistant starch in nutrition for disease prevention. It seeks to gather the latest research on various aspects of resistant starch, including its types and sources, digestive fate and metabolic effects, gut microbiota modulation, and its potential role in preventing diseases such as obesity, diabetes, cardiovascular diseases, and cancer. Potential Topics of Interest including but not limited to: 1. Types and Sources of Resistant Starch: • Classification and characterization of different types of RS • Food sources rich in RS and their nutritional profiles • Novel sources or innovative methods for increasing RS content in food products 2. Digestive Fate and Metabolic Effects of Resistant Starch: • Mechanisms of RS digestion and fermentation in the gastrointestinal tract • Metabolic effects of RS on glycemic control, lipid metabolism, and energy balance • Effects of RS on postprandial glucose and insulin responses 3. Gut Microbiota Modulation by Resistant Starch: • Influence of RS on gut microbiota composition and diversity • Production of short-chain fatty acids (SCFAs) by gut microbiota from RS fermentation • Interactions between RS, gut microbiota, and host health 4. Resistant Starch and Disease Prevention: • Epidemiological studies linking RS consumption to the prevention of obesity, diabetes, cardiovascular diseases, and colorectal cancer • Mechanisms underlying the protective effects of RS in disease prevention • Clinical trials evaluating the efficacy of RS interventions in disease management and prevention

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quest lab tubes: Diagnostic Samples: From the Patient to the Laboratory Walter G. Guder, Sheshadri Narayanan, Hermann Wisser, Bernd Zawta, 2009-09-15 This fourth, updated edition contains the latest developments in analytical techniques. An international team of authors summarizes the information on biological influences, analytical interferences and on the variables affecting the collection, transport and storage, as well as preparation of samples. In so doing, they cover age, gender, race, pregnancy, diet, exercise and altitude, plus the effects of stimulants and drugs. National and international standards are described for sampling procedures, transport, sample identification and all safety aspects, while quality assurance procedures are shown for total laboratory management. In addition, this practical book contains a glossary as well as a separate list of analytes containing the available data on reference intervals, biological half-life times, stability and influence and interference factors. For everyone involved in patient care and using or performing laboratory tests.

quest lab tubes: Bad Blood John Carreyrou, 2018-05-21 NATIONAL BESTSELLER • The gripping story of Elizabeth Holmes and Theranos—one of the biggest corporate frauds in history—a tale of ambition and hubris set amid the bold promises of Silicon Valley, rigorously reported by the prize-winning journalist. With a new Afterword covering her trial and sentencing, bringing the story to a close. “Chilling ... Reads like a thriller ... Carreyrou tells [the Theranos story] virtually to perfection.” —The New York Times Book Review In 2014, Theranos founder and CEO Elizabeth

Holmes was widely seen as the next Steve Jobs: a brilliant Stanford dropout whose startup “unicorn” promised to revolutionize the medical industry with its breakthrough device, which performed the whole range of laboratory tests from a single drop of blood. Backed by investors such as Larry Ellison and Tim Draper, Theranos sold shares in a fundraising round that valued the company at more than \$9 billion, putting Holmes’s worth at an estimated \$4.5 billion. There was just one problem: The technology didn’t work. Erroneous results put patients in danger, leading to misdiagnoses and unnecessary treatments. All the while, Holmes and her partner, Sunny Balwani, worked to silence anyone who voiced misgivings—from journalists to their own employees.

quest lab tubes: More Tales of the Defective Detective in the Pulp Gary Hoppenstand, Garyn G. Roberts, Ray Broadus Browne, 1985 This second collection of defective detective stories features some of the best of the period, including Russell Gray’s gimpy hero Ben Bryn, Edith and Ejler Jacobson’s hemophiliac gum-shoe Nat Perry, John Kobler’s glaucomatous troubleshooter Peter Quest, and Leon Byrne’s deaf detective Dan Holden.

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