

agilent technologies 1200 series

A Critical Analysis of the Agilent Technologies 1200 Series: Impact and Legacy in Modern Analytical Chemistry

Author: Dr. Eleanor Vance, PhD, Analytical Chemistry; 15+ years experience in HPLC method development and validation, specializing in pharmaceutical and environmental analysis.

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Abstract: This analysis critically examines the Agilent Technologies 1200 series HPLC system, assessing its historical impact and its continued relevance in the context of current trends in analytical chemistry. While superseded by newer technologies, the Agilent 1200 series remains a significant platform in many laboratories, highlighting its robust design and enduring capabilities. This article will discuss its strengths, limitations, and ongoing impact on analytical workflows.

1. Introduction: The Agilent Technologies 1200 Series and its Era

The Agilent Technologies 1200 series HPLC system holds a prominent place in the history of high-performance liquid chromatography. Released in the early 2000s, it quickly became a workhorse instrument in numerous analytical laboratories across diverse sectors, including pharmaceuticals, environmental monitoring, food safety, and forensics. The Agilent 1200 series represented a significant advancement in HPLC technology, offering improved performance, enhanced flexibility, and streamlined workflows compared to its predecessors. Its modular design allowed for customization to specific analytical needs, making it adaptable to a wide range of applications.

2. Key Features and Advantages of the Agilent 1200 Series

The success of the Agilent 1200 series can be attributed to several key features. Its modularity allowed users to configure the system based on their precise requirements, selecting components such as different pumps (e.g., quaternary pumps for gradient elution), autosamplers, detectors (UV, DAD, fluorescence), and column ovens. This flexibility was a significant advantage over earlier, more monolithic HPLC systems. The Agilent 1200 series also incorporated advanced software features for method development, data acquisition, and processing, simplifying workflows and improving data quality. The system's robust design and relatively easy maintenance contributed to its long operational lifespan in many laboratories.

3. Limitations and Technological Advancements Beyond the Agilent 1200 Series

Despite its significant contributions, the Agilent 1200 series is now considered a legacy system. The emergence of ultra-high-performance liquid chromatography (UHPLC) has significantly altered the landscape of liquid chromatography. UHPLC systems, such as the Agilent 1290 Infinity II LC, offer significantly higher speed and resolution compared to the Agilent 1200 series, enabling faster analysis times and improved separation capabilities. These advancements, along with improved detectors and data analysis software, have pushed the boundaries of what's achievable in analytical chemistry. While the Agilent 1200 series can handle many applications, its limitations in speed and pressure capabilities become increasingly apparent when compared to modern UHPLC systems.

4. Continued Relevance and Niche Applications of the Agilent 1200 Series

Although superseded by newer technologies, the Agilent 1200 series continues to find relevance in specific contexts. Many laboratories still utilize the Agilent 1200 series for routine analyses where the high speed and pressure capabilities of UHPLC are not strictly necessary. Its lower initial investment cost compared to UHPLC systems makes it an attractive option for laboratories with limited budgets. Furthermore, the extensive knowledge base and readily available spare parts for the Agilent 1200 series ensure continued support and maintenance, making it a reliable choice for established analytical methods.

5. Impact on Current Trends in Analytical Chemistry

The Agilent 1200 series' impact on current trends is primarily seen in its legacy. It played a crucial role in establishing the widespread adoption of

advanced HPLC techniques and spurred innovation in related technologies. Its design influenced the modularity seen in many modern HPLC systems. The experience gained in using the Agilent 1200 series contributed to the expertise that drives the development and application of current UHPLC and related techniques.

6. Conclusion

The Agilent Technologies 1200 series remains a significant milestone in HPLC technology. While its capabilities are surpassed by newer UHPLC systems, its legacy is undeniable. Its robust design, modularity, and wide adoption across various sectors have shaped the landscape of analytical chemistry. While its primary role may now be in routine applications and in laboratories with budget constraints, understanding the Agilent 1200 series' impact is vital to appreciating the evolution of modern HPLC technology.

FAQs

1. What are the major differences between the Agilent 1200 series and UHPLC systems? The primary differences lie in speed, pressure capabilities, and resolution. UHPLC systems operate at significantly higher pressures, enabling faster analysis times and better separation of complex mixtures.
1. Is the Agilent 1200 series still supported by Agilent Technologies? While not actively promoted as a new product, Agilent likely still offers some support and spare parts for the Agilent 1200 series, though this may vary based on location and availability.
1. What types of detectors are compatible with the Agilent 1200 series? A wide range of detectors are compatible, including UV-Vis, Diode Array Detectors (DAD), fluorescence detectors, and electrochemical detectors.
1. Can the Agilent 1200 series be used for quantitative analysis? Yes, the Agilent 1200 series is fully capable of performing quantitative analyses, provided appropriate method validation and quality control procedures are implemented.

1. What are the typical applications of the Agilent 1200 series? Its applications are diverse, including pharmaceutical analysis, environmental monitoring, food safety testing, and forensic science.
1. How does the software of the Agilent 1200 series compare to modern HPLC software? Modern HPLC software generally offers more advanced data processing capabilities, automation features, and intuitive interfaces.
1. What is the typical lifespan of an Agilent 1200 series HPLC system? With proper maintenance, the system can operate reliably for many years.
1. What are the common maintenance procedures for the Agilent 1200 series? Regular maintenance includes checking pump seals, cleaning the autosampler, and replacing mobile phase filters.
1. Where can I find spare parts for the Agilent 1200 series? Agilent Technologies is a primary source, though third-party suppliers might also offer parts.

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understanding of HPLC separation, our ability to solve problems that were troublesome in the past, and the application of HPLC for new kinds of samples. This carefully considered Third Edition maintains the strengths of the previous edition while significantly modifying its organization in light of recent research and experience. The text begins by introducing the reader to HPLC, its use in relation to other modern separation techniques, and its history, then leads into such specific topics as: The basis of HPLC separation and the general effects of different experimental conditions Equipment and detection The column—the heart of the HPLC system Reversed-phase separation, normal-phase chromatography, gradient elution, two-dimensional separation, and other techniques Computer simulation, qualitative and quantitative analysis, and method validation and quality control The separation of large molecules, including both biological and synthetic polymers Chiral separations, preparative separations, and sample preparation Systematic development of HPLC separations—new to this edition Troubleshooting tricks, techniques, and case studies for both equipment and chromatograms Designed to fulfill the needs of the full range of HPLC users, from novices to experts, *Introduction to Modern Liquid Chromatography, Third Edition* offers the most up-to-date, comprehensive, and accessible survey of HPLC methods and applications available.

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agilent technologies 1200 series: *Cytochromes P450: Drug Metabolism, Bioactivation and Biodiversity 2.0* Patrick M. Dansette, Danièle Werck-Reichhart, 2021-08-31 This book, *Cytochromes P450: Drug Metabolism, Bioactivation and Biodiversity*, presents five papers on human cytochrome P450 (CYP) and P450 reductase, three reviews on the role of CYPs in humans and their use as biomarkers, six papers on CYPs in microorganisms, and one study on CYP in insects. The first paper reports the in silico modeling of human CYP3A4 access channels. The second uses structural methods to explain the mechanism-based inactivation of CYP3A4 by mibefradil, 6,7-dihydroxy-bergamottin, and azamulin. The third article compares electron transfer in CYP2C9 and CYP2C19 using structural and biochemical methods, and the fourth uses kinetic methods to study electron transfer to CYP2C8 allelic mutants. The fifth article characterizes electron transfer between the reductase and CYP using in silico and in vitro methods, focusing on the conformations of the reductase. Then, two reviews describe clinical implications in cardiology and oncology and the

role of fatty acid metabolism in cardiology and skin diseases. The second review is on the potential use of circulating extracellular vesicles as biomarkers. Five papers analyze the CYPomes of diverse microorganisms: the *Bacillus* genus, *Mycobacteria*, the fungi *Tremellomycetes*, *Cyanobacteria*, and *Streptomyces*. The sixth focuses on a specific *Mycobacterium* CYP, CYP128, and its importance in *M. tuberculosis*. The subject of the last paper is CYP in *Sogatella furcifera*, a plant pest, and its resistance to the insecticide sulfoxaflor.

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Doug LaRowe, Alain F. Plante, 2020-01-10

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Dong, 2019-07-23 A concise yet comprehensive reference guide on HPLC/UHPLC that focuses on its fundamentals, latest developments, and best practices in the pharmaceutical and biotechnology industries Written for practitioners by an expert practitioner, this new edition of HPLC and UHPLC for Practicing Scientists adds numerous updates to its coverage of high-performance liquid chromatography, including comprehensive information on UHPLC (ultra-high-pressure liquid chromatography) and the continuing migration of HPLC to UHPLC, the modern standard platform. In addition to introducing readers to HPLC's fundamentals, applications, and developments, the book describes basic theory and terminology for the novice, and reviews relevant concepts, best practices, and modern trends for the experienced practitioner. HPLC and UHPLC for Practicing Scientists, Second Edition offers three new chapters. One is a standalone chapter on UHPLC, covering concepts, benefits, practices, and potential issues. Another examines liquid chromatography/mass spectrometry (LC/MS). The third reviews the analysis of recombinant biologics, particularly monoclonal antibodies (mAbs), used as therapeutics. While all chapters are revised in the new edition, five chapters are essentially rewritten (HPLC columns, instrumentation, pharmaceutical analysis, method development, and regulatory aspects). The book also includes problem and answer sections at the end of each chapter. Overviews fundamentals of HPLC to UHPLC, including theories, columns, and instruments with an abundance of tables, figures, and key references Features brand new chapters on UHPLC, LC/MS, and analysis of recombinant biologics Presents updated information on the best practices in method development, validation, operation, troubleshooting, and maintaining regulatory compliance for both HPLC and UHPLC Contains major revisions to all chapters of the first edition and substantial rewrites of chapters on HPLC columns, instrumentation, pharmaceutical analysis, method development, and regulatory aspects Includes end-of-chapter quizzes as assessment and learning aids Offers a reference guide to graduate students and practicing scientists in pharmaceutical, biotechnology, and other industries Filled with intuitive explanations, case studies, and clear figures, HPLC and UHPLC for Practicing Scientists, Second Edition is an essential resource for practitioners of all levels who need to understand and utilize this versatile analytical technology. It will be a great benefit to every busy laboratory analyst and researcher.

agilent technologies 1200 series: Practical HPLC Method Development Lloyd R. Snyder,

Joseph J. Kirkland, Joseph L. Glajch, 2012-12-03 This revision brings the reader completely up to

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agilent technologies 1200 series: Grafting as a Sustainable Means for Securing Yield Stability and Quality in Vegetable Crops Marios Kyriacou, Giuseppe Colla, Youssef Roupheal, 2021-03-29 Vegetable growers around the world only collect, on average, half of the yield they would obtain under optimal conditions, known as yield potential. It is estimated that 60–70% of the yield gap is attributable to abiotic factors such as salinity, drought, suboptimal temperatures, nutritional deficiencies, flooding, waterlogging, heavy metals contamination, adverse soil pH and organic pollutants, while the remaining 30–40% is due to biotic factors, especially soilborne pathogens, foliar pathogens, arthropods and weeds. Under climate change forecasts, the pressure of biotic/abiotic stressors on yield is expected to rise and challenge further global food security. To meet global demand, several solutions have been proposed, focusing on the breeding of varieties with greater yield potential, but this one-size-fits-all solution leads to limited benefits. In order to overcome the current situation, grafting of elite scion varieties onto vigorous rootstock varieties has been suggested as one of the most promising drives towards further yield stability. Specifically, the implementation of suitable rootstock × scion × environment combinations in Solanaceous (tomato, eggplant, pepper) and Cucurbitaceous (melon, watermelon, melon) high-value crops represents an untapped opportunity to secure yield stability and reliability under biotic/abiotic stresses. This Special Issue invites Original Research, Technology Reports, Methods, Opinions, Perspectives, Invited Reviews and Mini Reviews dissecting grafting as a sustainable agro technology for enhancing tolerance to abiotic stresses and reducing disease damage. In addition, the following are of interest: potential contributions dealing with genetic resources for rootstock breeding, practices and technologies of rootstock breeding, and rootstock–scion signaling, as well as the physiological and molecular mechanisms underlying graft compatibility. In addition, the effect of grafting on vegetable quality, practical applications and nursery management of grafted seedlings and specialty crops (e.g. artichoke and bean) will be considered within the general scope of the Special Issue. We highly believe that this compilation of high standard scientific papers on the principles and practices of vegetable grafting will foster discussions within this important field.

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