

New Application Report from Rigaku Demonstrates the Analysis of Hand Sanitizer Products using 1064 nm Handheld Raman

Rigaku Analytical Devices has published a new application report describing the use of Rigaku handheld 1064 nm Raman analyzers for a variety of applications involved in the manufacture and testing of hand sanitizer.

Wilmington, MA – December 23, 2020 – [Rigaku Analytical Devices](#), the pioneer in handheld 1064 nm Raman laser technology, has published a new application report detailing the analysis of hand sanitizers. The latest application note, available from the company's global website, describes the analysis of hand sanitizer products by Raman spectroscopy and highlights the performance of the Rigaku portfolio of handheld Raman analyzers.

The use of hand sanitizers is becoming part of the everyday norm, and global demand has grown significantly. As hand sanitizers in liquid and gel formulations are being produced by manufacturing companies around the world, there is a global focus on hand sanitizer manufacturing and quality control to ensure that they do not contain hazardous chemicals or fail to provide adequate protection. In response to increased consumer demand, regulatory agencies have also put processes in place to monitor import/export activity, as well as to directly test suspicious shipments.



Rigaku handheld 1064 nm Raman analyzers are the tools of choice for the variety of applications involved in the analysis of hand sanitizer

The two main active ingredients in most commercially available alcohol-based hand sanitizers are ethyl alcohol (ethanol) and isopropyl alcohol (isopropanol). These chemicals, as well as many potentially dangerous contaminants commonly found in handheld sanitizer formulations, are reactive to Raman spectroscopy. 1064 nm Raman analyzers are also favorable because of their ability to analyze finished products through colored packaging, such as blue and green-tinted plastic or glass, as well as identify the chemicals used during manufacturing.



The new application report, first published in the December edition of [The Bridge](#) materials analysis newsletter from Rigaku, contains data from three distinct case studies—examining inadequate active ingredients in hand sanitizers, identification of toxic chemicals, and identification of counterfeit products—and highlights the performance of the [Rigaku Progeny](#) and [ResQ](#) portfolio of 1064 nm Raman analyzers.

The results demonstrate that Rigaku handheld 1064 nm Raman analyzers are ideally suited to variety of applications involved in the analysis of hand sanitizer. A copy of this report can be accessed at <https://www.rigaku.com/applications/raman/hand-sanitizer-analysis>.

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About Rigaku Analytical Devices

Rigaku Analytical Devices is leading with innovation to pioneer a portfolio of handheld and portable spectroscopic analyzers for use in public health and safety, scientific and academic study, recycling and reuse of metal alloys, and to ensure the quality of key metal alloy components in critical industries. We strive to deliver quality, reliability and engaged expertise to our customers with our advanced product and capabilities and are dedicated to continual product development efforts to deliver mission critical enhancements to performance and functionality and reliable, cost-effective solutions for end users. Our rugged products operate on an open architecture platform and deliver unparalleled accuracy and support for rapid lab-quality results any time, any place.

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