ThermoFisher SCIENTIFIC

The journey to 100,000 NanoDrops starts with a single microliter.

The Thermo Scientific NanoDrop Microvolume Spectrophotomer debuted in 2001. Now in 2024, scientists everywhere have helped us reach the milestone of 100,000 NanoDrop instruments worldwide! See the steps of how and why we got here.

The big idea: More with less

Prior to the **NanoDrop Microvolume Spectrophotometer** being introduced in 2001, research on DNA, RNA and proteins was both time-consuming and error-prone due to required dilution of samples and possible interference by contaminants.

Less **volume**

Less **effort**

Less **waste**

1 microliter, 0 dilutions

The compact NanoDrop, with a small footprint that fits easily on a benchtop, introduced powerful analysis on a small sample size. Only 1 µL of sample—with zero (0) dilutions—is needed for analysis.

Greater *insight*

Intelligent technology for smarter analysis

In 2015, Acclaro Sample Intelligence software was developed and built into the NanoDrop One Spectrophotometer. The software uses a chemometric approach to analyze the chemical components in a sample. Its advanced algorithms even enable the identification of and correction for six different common contaminants.

Faster **sampling**

Precision and speed combined

The NanoDrop Eight brought the Acclaro contaminant identification to multiple samples simultaneously. It can measure eight samples at a time in less than 20 seconds, or a 96-well plate (eight samples at a time) in less than 6 minutes.

Easier **regulatory compliance**

Trustworthy and secure data

NanoDrop and Acclaro together ensure that sample quality and measurements meet and exceed the concentration and purity standards of MIQE guidelines. And optional software aids scientists in complying with U.S. FDA Title 21 CFR Part 11. Thanks to this dependability, NanoDrop instruments have been cited in more than 55,000 scientific publications over the years.

Improved *throughput*

Increased *efficiency*

Less preparation, more production

Since NanoDrop analysis does not require the dilution of samples beforehand or clean-up of a mess afterwards, the instrument can be considered to shave a minute (on average, roughly) off the typical time to measure a sample. If each of the 100,000 NanoDrop instruments built were to measure 1,000 samples, that would equate to 100 million minutes of time saved—more than 188 years' worth of productivity!

More **productivity**

More **dependability**

More **positive outcomes**

NanoDrop analysis leads to big-time results

Trusted by scientists everywhere, NanoDrop is the archetype for microvolume analysis. That's why now, in 2024, there are more than 100,000 NanoDrops in labs around the world!

Thermo Scientific NanoDrop Spectrophotometers:

Microvolume analysis that is fast, efficient, and easy to use… × 100,000

Learn more at **thermofisher.com/nanodrop**

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