

INTEGRA Biosciences Streamlines Serial Dilutions

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electronic pipettes, automation platforms, and peristaltic pumps are being used to increase the throughput and reproducibility

of serial dilutions. These highly flexible instruments are easily adapted to numerous different applications to simplify a range of liquid handling workflows and enhance lab productivity.



Serial dilutions are widely used across many life science disciplines and performing them correctly underpins the success of later studies. INTEGRA's robust and versatile products have been proven to introduce consistency to liquid handling workflows and minimize human error, boosting the repeatability of serial dilutions and ultimately enhancing result accuracy. They also increase sample throughput for a shorter time to results and greater lab productivity, and reduce the likelihood of RSI, contributing to the wellbeing of laboratory staff. These liquid handling solutions can be used to standardize and streamline pipetting protocols in a variety of applications, including:

- * standard curve preparation to quantify nucleic acid concentration and validate qPCR assays;
- * minimum inhibitory concentration testing in healthcare and drug development; and
- * bacterial enumeration for epidemiological studies.

The [VIAFLO lightweight electronic pipette](#) and [VOYAGER adjustable tip spacing pipette](#) enable users to predefine the pipetting speed and mixing parameters, and the partial tip loading of the VIAFLO 96 and VIAFLO 384 handheld electronic pipettes and the MINI 96 portable electronic pipette allows operators to set predefined pipetting heights and angles. All INTEGRA electronic pipettes also give users the option to perform dynamic volume changes during transfer and mixing. These capabilities eliminate manual influences and guarantee the uniformity of all dilution steps. Highly reproducible, automated pipetting can be achieved with the ASSIST PLUS pipetting robot, further speeding up throughput and giving staff more walk-away time.

As well as this, the DOSE IT laboratory peristaltic pump allows fast and accurate dispensing of samples into test tubes, greatly streamlining the pipetting steps of a serial dilution. Its CUSTOMIZE mode enables the easy creation of personalized liquid handling protocols based on configurable parameters such as volume, flow rate and repetitions, guaranteeing reproducible

sample transfer.

Visit the INTEGRA Biosciences website to learn more.

About INTEGRA Biosciences

INTEGRA Biosciences (<https://www.integra-biosciences.com>) is a leading provider of high-quality laboratory tools and consumables for liquid handling and media preparation. The company is committed to creating innovative solutions which fulfil the needs of its customers in research, diagnostics and quality control within the life sciences markets and medical sector. Today, INTEGRA innovative laboratory products are widely used all around the world. More than 100 distribution partners form a worldwide sales network providing responsive and competent services to customers. These distribution partners are supported by a highly motivated and experienced team of specialists at the company headquarters in Zizers, Switzerland and Hudson, NH, USA. INTEGRA is an ISO 9001 certified company.

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Editorial contact for further information or follow-up

Emily Armiger-Welch

kdm communications limited, St Neots, UK

+44 1480 405333

pressreleases@kdm-communications.com

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