



Transforming Aliquoting Tasks from Tedious to Effortless

Cell culture is a significant component of many labs and seemingly mundane tasks such as plating and feeding cells is often a large part of a scientist's day. Aliquoting samples, cells for cryopreservation, or reagents for media prep, and similar repetitive activities, are necessary and can be tedious. The ali-Q™ innovative technology and unique pipet controller design, allows for more efficient, accurate, and easier aliquoting. The ali-Q's 2-in-1 capability of repeat pipetting plus conventional aspirating and dispensing provide a one-stop solution for serological pipetting needs. [By VistaLab](#)

Pipetting liquids using a handheld portable controller is part of the daily routine in many laboratories. Preparing numerous aliquots can be a tedious, time-consuming task, often necessitating hours spent performing repetitive movements in uncomfortable postures. Aliquoting also requires skill and attention to ensure the accuracy and consistency critical to successful experimental outcomes. The ali-Q™ 2 aliquoting pipet controller is designed to address these challenges, and enables rapid, accurate aliquoting while maximizing user comfort and ease of operation.

Busy laboratories benefit from solutions that improve the speed and efficiency of routine tasks. Working with serological pipet controllers requires the operator to carefully observe the graduation marks for accurate dispensing. This becomes a time-consuming process when preparing dozens of aliquots, or plating and feeding wells for growing cells in culture. The ali-Q™ aliquoting pipet controller offers an efficient alternative, as it can be set to multi-dispense any volume up to five milliliters at the push of a button, eliminating the need to carefully watch the pipet graduations.

When performing liquid handling tasks, it is essential to consider various environmental factors including temperature, humidity, and pressure, which affect fluid volume and potentially compromise accuracy. For example, delivered volumes tend to be lower in warm environments and higher in cold environments. Thus,



environmental parameters potentially have significant implications for experimental outcomes. A device that automatically accounts for these factors saves valuable time and reduces the risk of error. The innovative ali-Q™ design uses computer-controlled sensors and valves that automatically detect changing environmental conditions and subsequently adjust volume settings to deliver the correct volume with each semi-automatic dispense.

Anyone who has spent hours at the bench or working in a biological safety cabinet will attest to the negative effects of poor working posture. Preparing aliquots with a serological pipet necessitates a 90° dispensing angle to visualize the fluid meniscus, which may be difficult to achieve in certain circumstances without compromising ergonomics. The ali-Q™ incorporates an internal accelerometer for rapid automatic adjustments based on the dispensing angle. This allows the operator to navigate objects in the surrounding area and work in a comfortable position.

The ali-Q™ 2 aliquoting pipet controller is the only 2-in-1 product that allows for both conventional and repeat pipetting using serological pipets. No other controller has ali-Q's repeater pipetting capability that eliminates the need to watch the lines on the serological pipet for faster and easier aliquoting than having to measure "by eye" watching the meniscus. The ali-Q's computer controlled technology gives you accurate volume dispenses every time, meaning consistent repeatability.

Serological pipets and controllers are workhorses in many labs, however inherent design limitations may contribute to inefficiencies, inaccuracies, and even injuries as a result of poor ergonomics. The ali-Q™ aliquoting pipet controller addresses the inadequacies of standard serological pipets and controllers, and is ideal for rapid preparation of accurate aliquots.

How it works:

Conventional Pipetting



Repeat Pipetting



Aspirate, dispense, and repeat pipette. Multidispense accurately with superior repeatability. No need for special tips!

The ali-Q™ 2 Series, including Variable aliquoting Speed model:

3 models Fixed High Speed Fixed Low Speed Variable Speed	LED & Speed Dial 2 multifunction LEDs Speed Dial (VS model only)	Onboard Calibration Software Invert to initiate protocol	Removable Kickstand

Additional features of the next generation of the world's only aliquoting pipet controller.

See the ali-Q 2 in action