Sensor Automatically Checks Microplate Washer Performance

BioTek's 405 Touch and 405 LS Microplate Washers are now available with patented Verify Technology to identify clogged washer manifold tubes. Verify uses an ultrasonic sensor to identify specific clogged dispense and aspirate tubes that can lead to inconsistent washing and assay failure. Using Verify, a pre-programmed quality control routine fills microplate wells with liquid and confirms the fluid levels. Microplate wells are then aspirated, and the fluid levels are measured again. Any discrepancy in the fluid level indicates a blockage, commonly caused by salt crystal and protein buildups, and the user is alerted to the precise well location. The 405's integrated Ultrasonic Advantage may then be used to eliminate the clogs using powerful ultrasonic technology. The optional Verify module is available on several BioTek 405 Touch and 405 LS models. The 405 Touch Microplate Washer provides 96- and 384-well compatible protocol creation and implementation via a simple, LED touch-screen interface, with automated internal buffer switching, quick release manifolds and optimized cell washing, even for loosely adherent cell monolayers. Additionally, two built-in USB ports enable individual file storage, transfer and operation. The 405 LS model incorporates many of the same features as the 405 Touch, and uses a keypad interface for remote operation or robotic installations. Both the 405 Touch and 405 LS are powered by Liquid Handling Control (LHC) software, and vacuum filtration and biomagnetic separation versions are available.

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