Data Sheet

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Agilent BioTek AutoScratch Wound Making Tool

Figure 1. Agilent BioTek AutoScratch wound making tool.

Product description

The Agilent BioTek AutoScratch wound making tool automatically creates reproducible scratch wounds in cell monolayers grown in microplates. The simple pushbutton operation and tool-free scratch pin manifold exchange make it easy to process either 24- or 96-well plates, which are commonly used in migration and invasion assays. Used along with an Agilent BioTek imaging system, the Scratch Assay app determines essential measurements such as wound width, percentage wound confluence and maximum wound healing.

The compact system features an onboard, preprogrammed cleaning routine to keep the scratch pins free of buildup and to avoid contamination. AutoScratch precisely and efficiently automates the sample prep for imaging workflows with Agilent BioTek Cytation cell imaging multimode readers and Lionheart automated microscopes.

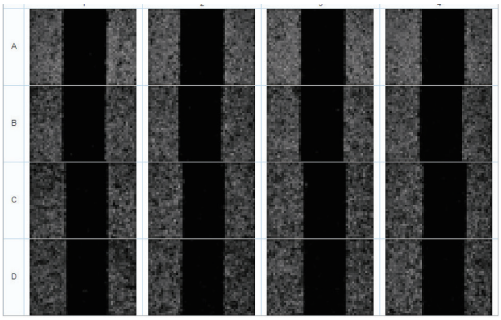

Figure 2. The Agilent BioTek AutoScratch creates uniform scratch wounds, as shown in this image captured with Agilent BioTek Gen5 microplate reader and imager software and Agilent BioTek Lionheart FX automated microscope.

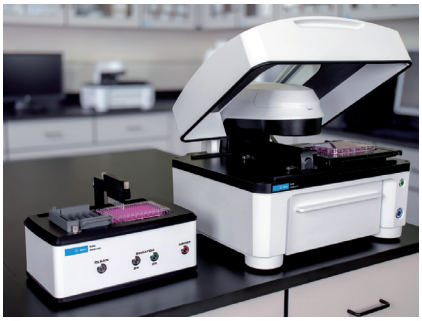

Figure 3. The Agilent BioTek AutoScratch automatically prepares sample plates for scratch wound assays with the Agilent BioTek Lionheart automated microscopes and Cytation cell imaging multimode readers.

Features

- Automatically creates wounds with excellent CVs
- Scratch Assay app provides key statistics including wound width, percentage confluence and maximum healing rate
- Compatible with 24- and 96-well plates
- Unattended multistep cleaning and decontamination
- Easily replaceable scratch pins minimize downtime between assays
- Quick setup, no training required

Typical applications

– Cell migration assays performed in 24- and 96-well plates

Configurations

AutoScratch

– Fully automated scratch wound maker for cell monolayers in 24- and 96-well microplates
– Includes 8-channel and 4-channel manifolds, with 16 tips (enough for both manifolds, plus 4 spares)

Optional accessories

1750011 Scratch Assay app; included predefined protocols automatically calculate results

02682 Corning Costar 24-well Clear TC-treated plates – flat bottom, polystyrene, sterile, lid, case of 100 (individually wrapped)

02683 Corning 96-well Clear TC-treated plates – flat bottom, polystyrene, sterile, lid, case of 100 (20 packs of 5)

Technical details

General	
Microplate Types	24- and 96-well microplates (Agilent part numbers 02682 and 02683)
Automated Functions	Wound making Cleaning process
Software	Scratch Assay app for automated result calculation and maintenance routines
Scratch Pins and Manifolds	User-removable, replaceable pins User-exchangeable manifolds
Wound Parameters	Entire wound visible within single 4x image taken on Agilent BioTek Cytation cell imaging multimode readers or Agilent BioTek Lionheart automated microscopes
Cleaning/ Sterilization	Built-in automated scratch pin cleaning procedure Built-in cleaning reagent troughs, removable for chemical sterilization
Physical characteristics	
Power	40 W maximum
Weight	8 lbs (3.6 kg)
Dimensions	12.0” D x 7.5” W x 6.75” H (30.4 x 19.1 x 17.2 cm)
Connectivity	1 USB 2.0 port for software download

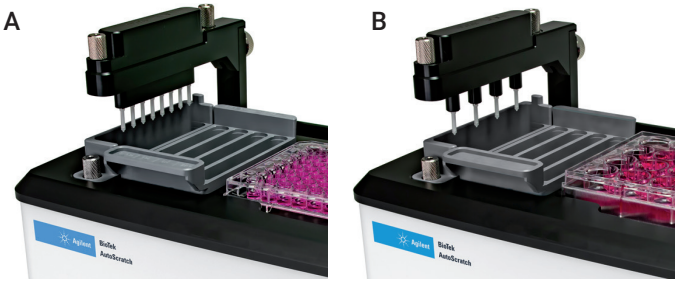

Figure 4. The Agilent BioTek AutoScratch wound making tool comes with (A) 8-pin and (B) 4-pin exchangeable manifolds to work with 96- and 24-well plates.

Figure 5. The Agilent BioTek AutoScratch wound making tool features:
(A) 8- or 4- pin manifold with replaceable tips
(B) Manifold arm, designed for easy manifold exchange
(C) 4-trough cleaning and decontamination station
(D) Simple control panel

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