Data Sheet

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Agilent BioTek Dual-Reagent Injector Modules

Figure 1. Agilent BioTek dual-reagent injector module for Agilent BioTek Synergy Neo2 hybrid multimode reader (shown without cover).

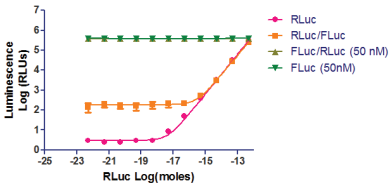

Figure 2. Dual-luciferase reporter (DLR) assay results with the Agilent BioTek Synergy HTX multimode reader. Luminescence was measured after reagent injection.

Product description

Many applications in multimode detection and imaging benefit from the ability to inject and quickly measure or image a reaction. Agilent offers dual-reagent injector modules for several Agilent BioTek Synergy multimode detection systems and for Agilent BioTek Cytation and Lionheart FX imaging systems to facilitate and automate these quick reactions.

The compact dual-reagent injector modules can be installed and operational in a few minutes, even with existing detection and imaging systems. Straight- and angled-tip options are available to further optimize the effect of rapid reagent injection into 6- to 384-well microplates, and Petri and cell culture dishes. Agilent BioTek Gen5 microplate reader and imager software integrates reagent injection parameters into the detection or imaging step for assay automation.

Features

- Easy integration of both hardware and software
- Precise, accurate reagent addition
- Reagent injection available in multiple detection modes
- Low dead volume saves precious reagent
- Broad injection volume from 5 to 1,000 µL in 1 µL increments
- Compatible with a wide variety of labware
- Angled or straight tips optimize reagent injection

Typical applications

- Dual-luciferase reporter (DLR) assays
- Ion channel assays
- Fast enzyme kinetics
- Kinetic live cell imaging

Figure 3. Agilent BioTek Synergy HTX multimode reader with Agilent BioTek dual-reagent injector module.

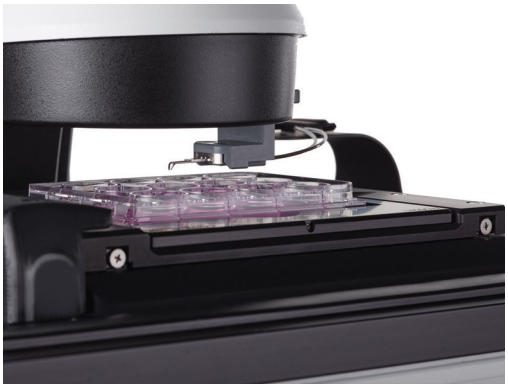

Figure 4. Aligned tip for Agilent BioTek Lionheart FX automated microscope injector module.

Technical details

General	
Number of Injectors	2
Supported Labware	6- to 384-well microplates, and Petri and cell culture dishes
Volume Range	5–1,000 µL in 1 µL increments
Dead Volume	< 1.1 mL with backflush (Synergy multimode readers and Cytation cell imaging multimode readers) < 1.65 mL with backflush (Lionheart FX automated microscope)
Dispense Accuracy	± 1 µL or 2%
Dispense Precision	< 2% at 50–200 µL

Configurations

Part Number	For Use With	Description
8040036	All Agilent BioTek multimode readers and imagers	Dual-reagent injector base unit. Additional accessories as detailed below
1340518	Synergy HTX	Dual-reagent injector feed-through assembly with straight tips
8040038	Synergy H1, Synergy Neo2 Cytation 1, 5, and 7 Cytation C10	Dual-reagent injector feed-through assembly with straight tips
1320514	Synergy H1, Synergy Neo2 Cytation 1, 5, and 7 Cytation C10	Angled tips, requires feed-through assembly (part number 8040038)
1450533	Lionheart FX	Lionheart FX injector tubing with optics aligned tips
1450532	Lionheart FX	Lionheart FX injector tubing with offset tips

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