

Small Molecule Direct Measurements at Your Bench

Labeled biochemical or cell-based assays often yield false positives due to confounding factors that generate nonspecific noise. Agile R100, a breakthrough binding assay platform, lets you confirm results from **small molecule weak binders in high concentrations** right at your bench. No more sending false positives to secondary screening – now you can double check your hits with a direct measurement tool that is easy to use and provides **accurate binding results in an hour**. Agile R100 leverages an orthogonal electrical sensing mechanism called Field Effect Biosensing (FEB) that excels at measuring small molecules, so you can reduce the time and resources spent on compounds that ultimately fail.



Agile® R100

Small molecules, *big results.*

HIGH CONCENTRATIONS

With an **11-log dynamic range that goes up to 10 mM**, Agile R100 doesn't let any weak binders slip through the cracks.

EASY TO USE

Agile R100 is a plug and play system with **built-in protocols and automated reference subtraction**, for quick, dependable results.

10% DMSO

Small molecules and proteins can be measured directly in detergents and solvents such as **DMSO (up to 10%)**, significantly reducing sample prep time.

LESS MATERIAL

Use just a **10 µL drop of sample and 0.5 ng of target material** and save precious reagents and resources.



GO LABEL-FREE

Labels can confound interactions and produce incorrect results. Double-check your hits with a **direct measurement platform** to have confidence in your candidate selection.

SMALL MOLECULES > 10 Da

Using a **non-optical sensing technique**, Agile R100 excels at measuring small molecules starting at just 10 Da.

SMALL FOOTPRINT

At just **9" x 3"**, Agile R100 can be moved from benchtop to benchtop, or stored away when not in use.

Reduce False Positives

Agile R100 is an optics-free personal assay system that is undeterred by solvents or impurities. With the ability to detect the weakest small molecule interactions in high concentrations, now you can reduce false positives and have confidence in your primary hits.

VERSATILE APPLICATIONS



CONFIRM BINDING

Detect small molecule weak binders in high concentrations with small amounts of target.



RANK ORDER

Gain preliminary rank ordering data using k_{obs} .

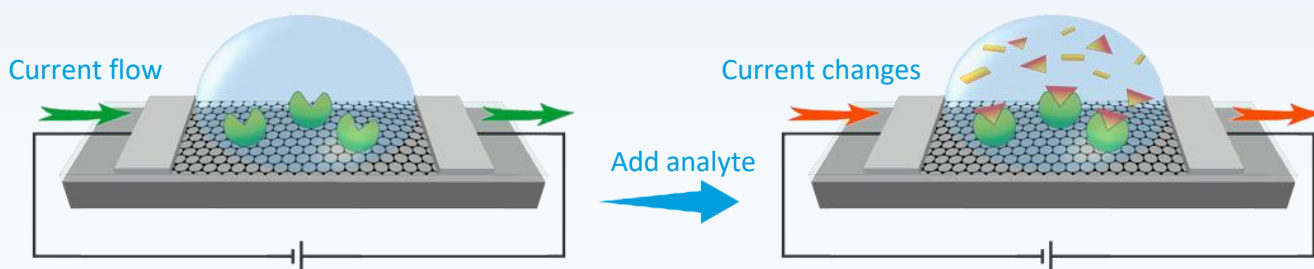


ANALYZE AFFINITY

Simple workflows let you gain fast initial characterization of biomolecular interactions.

BREAKTHROUGH TECHNOLOGY

At the heart of Agile R100 is a sensitive graphene biosensor built with proprietary Field Effect Biosensing (FEB) technology. FEB, an electrical technique, measures the current across the sensor surface to which targets are immobilized. When analyte is added, the binding interaction causes a change in conductance that is monitored in real-time, enabling accurate direct measurements of binding and affinity.



Contact Us For a Trial Opportunity

We're here to help you achieve the binding data you need when you need it. Contact us to learn more!

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