

# Analytical solution for high-throughput drug discovery assays

Selecting the right analytical technology to support drug discovery is a key decision

This infographic compares different analytical technology in this space

## AEMS at a glance



Fast method development time



Low consumable requirements

≥ 2.5 nL

Sample volume used



Fast sample preparation time

Up to 1 sample per

1 sec

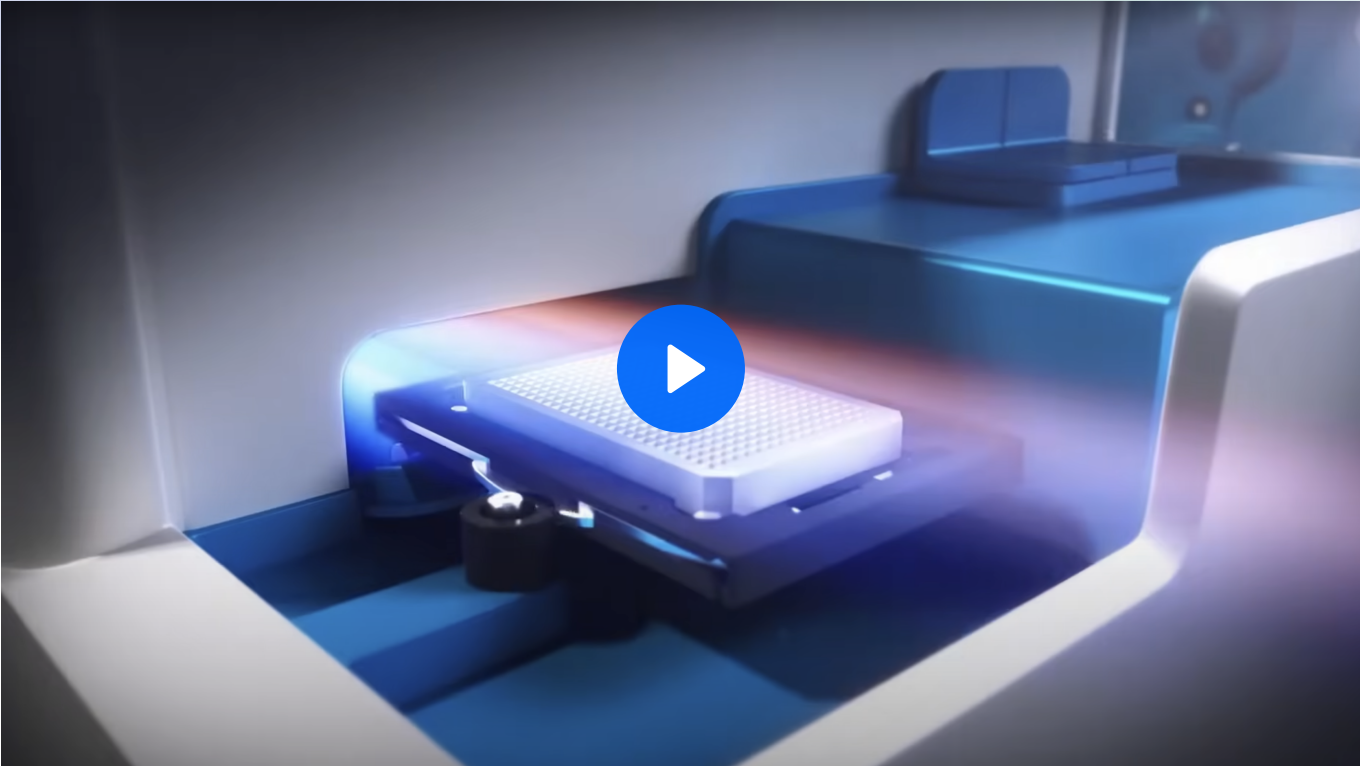
Data acquisition time

[30 min 1536 well plate]



Data quality you can rely on

[Low false positive/negative rate]



	AEMS	SPE – MS	Plate Reader
	Acoustic ejection mass spectrometry	Solid phase extraction – mass spectrometry	
Instrument purchase price	●○○○	●●○○	●●●●
Instrument size	●	●	●
Method development time	●●●●	●●○○	●○○○
Consumable requirements and cost	●●●●	●●○○	●○○○
Sample volume	● ≥ 2.5 nL	● 5 - 50 µL	● 25 - 50 µL
Sample preparation time	●●●●	●●○○	●○○○
Data acquisition time	●●○○ 10 mins [384 well plate] 30 min [1536 well plate]	●○○○ Approx. 8 sec per sample with SPE	●●●● 21- 38 sec per plate [6 to 1536 wells per plate]
False positive/negative rate	●●●●	●●○○	●○○○

Don't compromise  
Obtain high quality data at speed

Plate readers are well established for high throughput screening assays because they are cost-effective and have a favorable throughput for common assays. However, they require significant skill and method development time to select the optimum labelling-reagent, and the reagents themselves can be expensive.

AEMS is more expensive to purchase but benefits from the specificity of mass spectrometric detection and the ability to measure a more diverse range of compounds. Being a label-free technique reduces the method development time and confidence in the accuracy of the results.

[Learn more →](#)