

Excellims GA2200 CV A New Approach to Cleaning Validation

Offering highly specific analysis in seconds, rapid method development capability and a small footprint suitable for at-line analysis, the GA2200 CV is the perfect tool for high throughput cleaning validation and verification

- Chemical analysis of swab and rinse samples in **30 - 60 seconds**
- High resolving power for **specific identification** of APIs and detergents ($R > 70$)
- Wide applicability through electrospray (ESI), including **non-volatile and thermally labile APIs**
- **Rapid method development capability**, ideal for large numbers of compounds
- **Small footprint** suitable for both lab and mobile operation at-line
- Ease of use **without columns**, vacuum or significant amounts of solvent
- **Fully 21 CFR part 11 compliant** software package with multiple user levels, e-signatures, and audit reports



The GA2200 CV is the newest member of Excellims' family of high performance ion mobility analyzers, designed for routine chemical analysis in regulated environments. It combines the characteristic speed and sensitivity of ion mobility with high analytical resolution for the confident identification of API and detergents in swab extract or rinse samples. Using neither columns nor vacuum pumps, the GA2200 CV is easy to maintain and requires only little method development for new APIs, ideal for environments with a need for the specific analysis of many diverse compounds.

The GA2200 CV features fully 21 CFR part 11 compliant software which has been streamlined to allow for routine analysis in the field, eliminating wait times for sample transfer to the lab. This routine at-line capability is supported by the GA's 16"x 18.4" footprint, allowing it to be placed on a cart for mobile operation. Apart from increasing equipment uptime through fast sample turnaround, the GA2200 CV also avoids the disposal cost of large amounts of solvent.

In addition to cleaning validation, the GA2200 can also be used for other routine chemical analysis tasks like rapid reaction monitoring and isomer separation, whether in the laboratory or at-line. To find out more, contact Excellims for a demonstration on your compounds.

Performance Characteristics

Resolving power	70 – 120
Analysis time / sample	30 – 60 seconds
Sensitivity	ppb – ppm (pg – ng)
Linear dynamic range	2 – 3 orders of magnitude

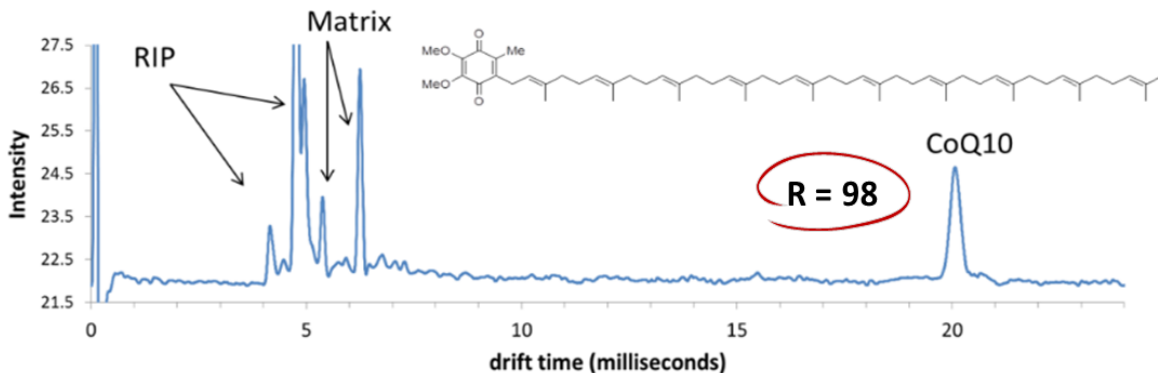
Applications examples

- | | |
|----------------------|---|
| Cleaning validation | <ul style="list-style-type: none">• Analysis of swab extract• Analysis of rinse samples |
| Related applications | <ul style="list-style-type: none">• Dissolution studies• Isomer separation• Reaction monitoring• Fermentation process monitoring |

Hardware, Software & Options

Ion source	Electrospray (ESI) standard,
Drift tube	Atm. pressure, 10 cm
Drift gas temperature	Up to 250°C
Drift gas	Air, N ₂ , CO ₂ , He etc.
Dimensions (H x W x D)	18.5 x 16 x 18.4 inches / 47 x 41 x 47 cm
Weight	42 lbs. / 19 kg
Power	AC 110/220 V, 50/60Hz
Operating environment	-5°C – 45°C
Computer control and software	Built-in Windows computer with touchscreen display Vislon™ control and data analysis package 21 CFR part 11 compliant Network connectivity; wireless/Bluetooth option
Optional equipment	Autosampler, cart and vehicle mount, drift gas modification unit (DGMU)

Highest resolution in a commercial stand-alone IMS analyzer – GA2200 CV



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