



Efficient, independent, cost-effective qualification for HPLC and GC

v-kit is a unique product for the IQ/OQ/PQ qualification of HPLC and GC instruments. Since its launch five years ago, it has grown to become the standard platform for HPLC and GC qualification for many organisations who appreciate the time, effort and cost savings it delivers.

Start with Initia

v-kit contains the software, standards and SOPs needed for effective HPLC or GC qualification. v-kit adds efficiency and consistency to the qualification process. It allows instrument vendors, service providers or equipment users to deliver HPLC and GC qualification and calibration. v-kit also uses one standard approach to GC and HPLC qualification, regardless of instrument manufacturer, so it provides the potential of consistent performance across all your equipment on all sites.

Top-up with Refills

Initia v-kits are topped up as needed with refill packs. These include all necessary consumables and extra licenses, and can be ordered in any required quantity.

InitiaLC and InitiaGC are the starter packs, they include sufficient materials for two systems, although you can order kits for as many validations as you need.

v-kit advantages

- **Cost effective:** v-kit allows you to cut the cost of HPLC and GC qualification by up to 80%
- **Harmonised:** v-kit uses one standard GC and HPLC qualification approach for all instruments, all laboratories and all sites
- **Comprehensive:** v-kit consists of software, SOPs, and traceable reference standards
- Full SOP provided for each qualification test: saves time and effort
- User-friendly software: flexible, easy-to-use and independent of your chromatography data systems
- v-kit allows instrument vendors, service providers or equipment users to deliver GC and HPLC qualification and calibration

Contract service: Suitably trained service engineers can provide a planned maintenance and qualification service using the unique v-kit validation system

Self-delivery: Using your own laboratory analysts or in-house service personnel — full v-kit training and traceably calibrated tools are supplied by nlg-analytical or your local authorised v-kit vendor

- Used correctly, v-kit can aid compliance to regulations issued by international authorities such as FDA (USA), MHRA (UK), IMB (Ireland), etc.

info

hplc

gc



v-kit InitiaGC



v-kit InitiaLC

For more information about v-kit, including details of your local distributor, visit the v-kit website or contact v-kit's manufacturer — NLG-Analytical:

www.v-kit.com

www.nlg-analytical.com

t: +44(0)1260 274-266

e: info@nlg-analytical.com

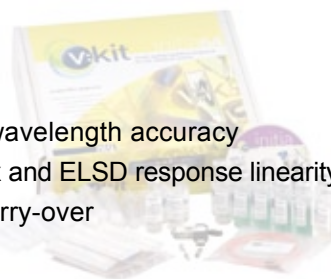


What's in v-kit

The v-kit Initia pack contains software, traceable reference standards, SOPs, logbook, column and detectors for complete systems.

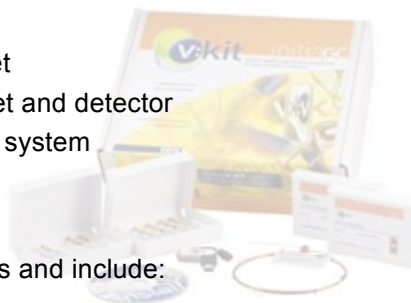
HPLC v-kit tests include:

- Pump flow rate accuracy and precision
- Gradient composition accuracy and linearity
- UV/Vis, PDA/DAD and fluorescence detector wavelength accuracy
- UV/Vis, PDA/DAD, fluorescence, refractive index and ELSD response linearity
- Autosampler injection volume precision and carry-over
- Autosampler injection volume linearity
- Column oven and autosampler tray temperature accuracy



GC v-kit tests include:

- Detector response linearity FID/TCD/MSD
- Injection precision & carryover for liquid and headspace samplers
- Temperature accuracy for oven, inlet and detector
- Temperature stability for column oven
- Pressure accuracy and tightness for inlet
- Flow rate accuracy and precision for inlet and detector
- Linearity and precision for complete GC system
- Retention time reproducibility



v-kit Refills:

Refills top-up their corresponding Initia kits and include:

- System refills
- Detector-only kits
- Service packs for large volume users

Individual products can be ordered if your needs are not met by the off-the-shelf Initia and Refill kits.

v-kit HPLC and GC tools



v-kit liquid flowmeter



v-kit gas flowmeter



v-kit 2-channel thermometer



GC manometer



HPLC Autosampler tray temperature probe

Injection port temperature probe



Packed with benefits to ease the validation process



Writing and maintaining SOPs is a time-consuming process. A key benefit of v-kit is the full SOP provided for each qualification test in Initia GC and HPLC kits.

Printed and electronic versions of the SOPs are supplied in a log-book that's also used to store your test raw data, OQ reports, certificates of analysis and calibration.

Each time you order a Refill kit the latest version of the SOP — complete with revision history, is supplied, ensuring your system is completely up-to-date.



Key to v-kit's ease of use is the software, which provides a step-by-step guide through the qualification process. Use the software to log-in details of your chromatography equipment and your calibrated test equipment. You will be prompted to set test set-points and PASS/FAIL criteria — or you can simply use the pre-programmed default set-points and criteria. You will be guided through the process of raw data entry, data checking and reporting — ultimately generating an audit-ready report detailing the outcome of your qualification test.

v-tools are the recommended tools for HPLC/GC OQ and integrate with the v-kit software and procedures. The range of tools has been designed to ensure accuracy as well as to help to speed up the instrument testing process. The calibration on all tools is valid for one year and includes traceable calibration certificates.