



www.v-kit.com



HPLC qualification



# v-kit Pro HPLC – a unique product for system OQ/PQ

v-kit Pro for HPLC includes software, traceable reference standards, SOPs and a logbook and is available for HPLC and UPLC, with all common detectors – UV, UV/Vis, PDA/DAD, Fluorescence, Refractive Index, ELS and Conductivity.

A wide range of qualification tests:

v-kit Pro offers a wider range of qualification tests than previous v-kit versions including:

- Pump flow rate accuracy and precision
- Gradient composition accuracy, noise and linearity
- UV/Vis, PDA/DAD and fluorescence detector wavelength accuracy
- Fluorescence detector wavelength accuracy – emission & excitation - NEW
- Response linearity for UV/Vis, PDA/DAD, fluorescence, refractive index and ELS and conductivity detectors
- Signal-to-noise - NEW
- Autosampler injection volume precision and carry-over
- Autosampler injection volume linearity
- Column oven and autosampler tray temperature accuracy



Written on the advanced v-kit Pro platform, the software features report creation, summary reporting and audit trail and user/manager access rights.

The electronic logbook function allows the data from the entire qualification exercise to be quickly and easily assembled into a single document for storage or distribution.

v-kit is used worldwide in labs working to cGMP and/or subject to inspection from regulatory agencies such as the FDA and MHRA. As with all v:kits, the HPLC and UPLC kits can be provided for qualification by the user or as part of service delivery by approved v-kit service partners.

## Seamless standards and software

The supplied reference standards provided integrate seamlessly with the v-kit software. Essential information regarding their traceability is encrypted into an electronic dataset supplied with each kit, and used for calculation and in report creation. A Certificate of Analysis is provided with each batch of solutions. The solutions are supplied in glass vials with a batch number and expiry date. Each solution is guaranteed to have a minimum one-year from date of shipment until expiry. The v-kit software prevents accidental use of out-of-date solutions.

## v-kit Pro Platform

The v-kit Pro application and dongle provides the platform that drives all qualification tests, delivering efficient testing, reporting, data management and auditing.

## Start with Initia

The 'Initia' starter pack provides the qualification protocols, including sufficient materials for a complete system qualification. You can order kits for as many qualifications as you need.

## Top-up with Refills

v-kit Pro HPLC starter kits are topped up as needed with Refills. These include all necessary consumables and extra licences, and can be ordered in any quantity.

HPLC Refill kits include:

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

See ordering specifications overleaf for product codes and descriptions

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:

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t: +44(0)1260 274-266

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# Take control of your qualification with v-kit

At-a-glance: How you benefit from using v-kit

- **Cost effective:** v-kit allows you to cut HPLC/UPLC qualification cost by up to 80%
- **Consistent:** v-kit uses one standard qualification approach for all HPLC instruments, all laboratories and all sites
- **Comprehensive:** v-kit contains 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 qualification and calibration
  - **Contract service:** Suitably trained service engineers can provide a planned maintenance and qualification service using the unique v-kit qualification 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.



## Ordering specifications

Part number	Item
VPRO-0000	v-kit Pro application and dongle
Initia Kits – NB: these require v-kit Pro application and dongle (VPRO-0000)	
VPRO-2001	HPLC Initia kit, with protocols for gradient HPLC, UV, PDA, FL, RI, ELS, CD detectors and accessory kit
VPRO-9001	UPLC Initia kit, with protocols for UPLC systems with UV or PDA detectors and accessory kit
Refill kits	
VPRO-2012	HPLC Gradient system with UV detector and refill
VPRO-2022	HPLC Gradient system with UV detector (extended) – wavelength accuracy Far UV 205nm test refill
VPRO-2032	HPLC Gradient system with FL detector refill
VPRO-2042	HPLC Isocratic system with RI detector refill
VPRO-2052	HPLC UV detector only, linearity & wavelength accuracy @ 241nm - 640nm test refill
VPRO-2062	HPLC UV detector only (extended) – wavelength accuracy @ 205nm - 271nm test refill
VPRO-2072	HPLC FL detector only – linearity, and excitation & emission @ 397nm wavelength accuracy tests refill
VPRO-2082	HPLC FL detector only (extended) emission @ 450nm wavelength accuracy test refill
VPRO-2092	HPLC RI detector only refill
VPRO-2102	HPLC ELS detector only refill
VPRO-2122	HPLC CD detector only refill
VPRO-2112	HPLC front-end only refill

To order call: +44(0)1260 274-266 e: info@nlg-analytical.com

## Qualification tools

These recommended tools for HPLC OQ integrate with the v-kit software and procedures. The range 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.



VKIT-LFM (1/2/3): HPLC Flowmeter with 1, 2 or 3-point UKAS calibration



VKIT-1514 HPLC: Autosampler tray temperature probe



VKIT-1531: v-kit 2-channel printing thermometer