



# V:Kit 5 delivers efficient and independent qualification for HPLC

V:Kit 5 HPLC consists of software, a comprehensive protocol with over 40 user-configurable tests, traceable reference standards with certificates of analysis, and SOPs. Kits are available for HPLC and UPLC, with all common detectors.

## V:Kit 5 HPLC tests include:

### Pumps

- Pump flow rate accuracy and precision
- Gradient accuracy and linearity

### Column Ovens

- Temperature accuracy and stability

### Autosamplers

- Injection precision and carry-over
- Injection linearity
- Temperature accuracy (sample coolers)

### Detectors

- UV/Vis - wavelength accuracy, response linearity, signal-to-noise
- Fluorescence - EX & EM wavelength accuracy, response linearity, signal-to-noise
- RI - refractive index detector linearity only
- ELS - evaporative light scattering response linearity
- Conductivity - response linearity

## Seamless standards and software

Standard solutions integrate seamlessly with V:Kit software. Essential information regarding their traceability is automatically uploaded from the supplied dataset.

A Certificate of Analysis is provided with each batch of solutions. The solutions are provided in sealed 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. V:Kit software prevents accidental use of out-of-date solutions.

The following solutions are available:

- UV wavelength accuracy (241-640nm)
- UV wavelength accuracy – far UV (205-271nm)
- UV response linearity
- Fluorescence response linearity & wavelength accuracy
- Refractive index response linearity
- Autosampler precision and linearity
- Gradient composition accuracy
- ELS response linearity
- Conductivity detector



HPLC



## Why you should use V:Kit 5

- Windows-based software
- Qualification protocols
- SOPs
- Traceable reference standards.

## Efficient

V:Kit is a self-contained qualification system designed for quality and efficiency. It can dramatically reduce the time taken to manage instrument qualification.

## Comprehensive

Qualification using V:Kit is a seamless operation, combining software, reference standards, documentation, SOPs and tools.

## Harmonised

V:Kit uses one standard approach, regardless of instrument manufacturer, providing a platform that can unify the quality and consistency your qualification across all makes of instrument, all laboratories, all locations.

## V:Kit lets you take control

V:Kit incorporates a wide range of protocols to meet your requirements.

We can deliver bespoke protocols designed specifically to your own needs.

Find out more about V:Kit 5:

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e: [info@v-kit.com](mailto:info@v-kit.com)

# V:Kit for HPLC



HPLC

## V:KIT is a unique and independent system for qualifying analytical instruments.

It's a system for the OQ/PQ qualification of HPLC, GC and GCMS, also tablet dissolution instruments and processes. V:Kit aids efficiency and is user-friendly.

Your starting point for using V:Kit for HPLC qualification, is the **V:Kit 5 Application (V5-0000)**. This software is delivered online – downloaded to your PC, laptop or tablet running Windows 7 or 8. With your software you receive 1 year's licence subscription for 1 registered user. You can buy multiple licences, or additional licences when needed.

Add the **V:Kit 5 HPLC Starter Kit (V5-2001)** and you have a powerful and efficient system for qualifying your HPLC with UV/Vis, Fluorescence, Refractive Index, Evaporative Light Scattering and Conductivity Detectors using traceable standards, calibrated tools and controlled procedures.

## Ordering specifications

Part number	Item
V5-0000	V:Kit 5 software only
V5-2001	V:Kit 5 HPLC starter kit
V5-2002	Upgrade HPLC ver 3.1/Pro to V:Kit 5 Standard
V5-2012	HPLC gradient system with UV detector refill
V5-2022	HPLC gradient system with Far UV detector refill
V5-2052	HPLC UV detector refill
V5-2062	HPLC Far-UV detector refill
V5-2072	HPLC FL detector refill
V5-2082	HPLC FL detector (extended) refill
V5-2092	HPLC RI detector refill
V5-2102	HPLC ELS detector refill
V5-2112	HPLD front end refill
V5-0002	Transfer of licences from 3.1/Pro dongle to V5 format
Tools	
VKIT-LFM(1/2/3)	HPLC flowmeter with 1, 2 or 3-point UKAS calibration
VKIT-PL25	V:Kit HPLC pressure loop
VKIT-2004	AutoFlow HPLC flowmeter software

Please browse the V:Kit website for a full list of current V:Kit products for HPLC.

## V:Kit HPLC includes:

HPLC protocols: Gradient system with UV, PDA, FL, RI, ELS, CD detectors

HPLC technique licence

Accessories: 1 x Pressure loop, 2 x finger-tight fittings, 1 x ZDV union, 1 x luer adaptor, 1 x 20mm de-crimper, 1 x Polypropylene syringe & needle

You can add test licences, traceable reference standards, and buy qualification tools as and when needed. Browse the online store at [www.v-kit.com](http://www.v-kit.com) for the wide variety available.

## Who can use V:Kit?

Suitably trained personnel, such as service providers and equipment users, can use V:Kit as a tool to provide instrument qualification. Used correctly it can aid compliance to regulations issued by international authorities such as the FDA (USA), MHRA (UK), IMB (Ireland), etc.

## Qualification Tools

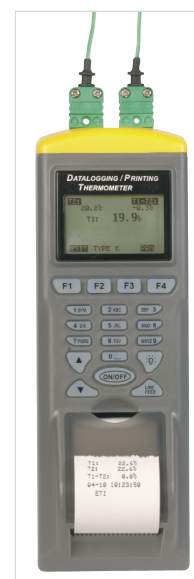
The recommended tools for HPLC OQ integrate with the V:Kit software and procedures. The range has been designed to ensure accuracy, and to help speed up the instrument testing process. Calibration on all tools is valid for one year and includes traceable calibration certificates.



V:Kit LFM liquid flowmeter



HPLC Autosampler tray temperature probe



V:Kit 2-channel thermometer