



Independent, consistent OQ/PQ for GCMS



v-kit is a unique product for the OQ/PQ of GCMS systems. The v-kit Initia pack contains software, traceable reference standards, SOPs, logbook and a low-bleed MS phase capillary column. The kit is ideal for the qualification of single quadropole GCMS systems such as the Agilent/Hewlett Packard 5975/5973/5972/5971 MSD, Thermo's DSQ and Shimadzu's QP2010 and QP5050.

GCMS v-kit protocols include:

- Mass Accuracy test
- Signal to noise test
- Autosampler precision/mass ratio test
- RFPA test (suitable for Agilent MS only)
- Column oven, Inlet and detector temperature accuracy & stability
- Inlet pressure accuracy and tightness
- Inlet and detector flow accuracy (inc. split, purge)
- Autosampler injection precision, carryover & retention time reproducibility

Seamless standards and software

The supplied Octafluoronaphthalene, PFTBA and hydrocarbon standards provided integrate seamlessly with the v-kit software. Essential information regarding their traceability is encrypted into an electronic dataset supplied with each kit.

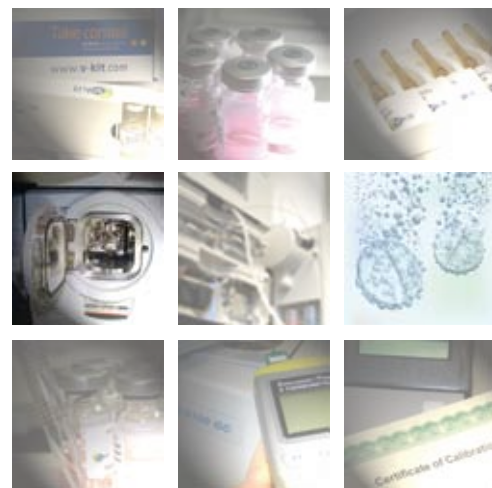
A Certificate of Analysis is provided with each batch of solutions. The solutions are supplied in sealed glass ampoules with a batch number and expiry date. Gravimetric, GCMS and standard GC data is retained, demonstrating the integrity of the standards. Each solution is guaranteed to have a minimum one-year from date of shipment until expiry. The v-kit software prevents accidental use of out-of-date solutions.



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 GCMS kits can be provided for qualification by the user or as part of service delivery by approved v-kit service partners.

v-kit GCMS – From NLG Analytical: the world's leading independent analytical qualification provider



v-kit GCMS Starter Pack

The Starter Pack includes sufficient materials for a complete system qualification (EI). You can order kits for as many qualifications as you need.

Top-up with Refills

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

GCMS 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:

www.nlg-analytical.com

t: +44(0)1260 274-266

e: info@nlg-analytical.com

Take control of your GCMS qualification with v-kit

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

Cost effective: v-kit allows you to cut GCMS qualification cost by up to 80%

- **Consistent:** v-kit uses one standard qualification approach for all GCMS 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
VPRO-4001	GC/MS Initia kit with protocols for GC & GCMS system, liquid & headspace injectors, FID, TCD, ECD, MS. Includes GC and GCMS OQ columns
LVPRO-4001	GC/MS v-kit Pro (Lite Edition), Starter Kit with application, dongle, protocols and column
Refill kits	
VPRO-4012	G/MS Refill kit, detector only
VPRO-4022	GC System with GC/MS detector (CI)
VPRO-4032	GC System with GC/MS detector (EI + CI)
VPRO-4042	GC/MS detector only (EI)
VPRO-4052	GC/MS detector only (CI)
VPRO-4062	GC/MS detector only (EI + CI)
VPRO-3072	GC Mainframe only (no detectors, no autosampler) refill kit
VPRO-3032	GC Headspace sampler refill kit
Tools	
VKIT-GFM	Digital gas flowmeter with 5-point traceable calibration certificate
VKIT-DMA	Digital pressure meter with capillary inlet adaptor
VKIT-1531	2-channel digital thermometer 5-point traceable calibration certificate
VKIT-1517	Temperature probe for GC inlet (3-point traceable calibration certificate optional)
VKIT-1519	Temperature probe for GC oven (3-point traceable calibration certificate optional)

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

v-kit GCMS tools

v-tools are the recommended tools for GCMS 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.



v-kit Gas Flowmeter



GC Pressure Meter



v-kit 2-channel thermometer



Injection port temperature probe