

HPLC - 3080

Portable HPLC



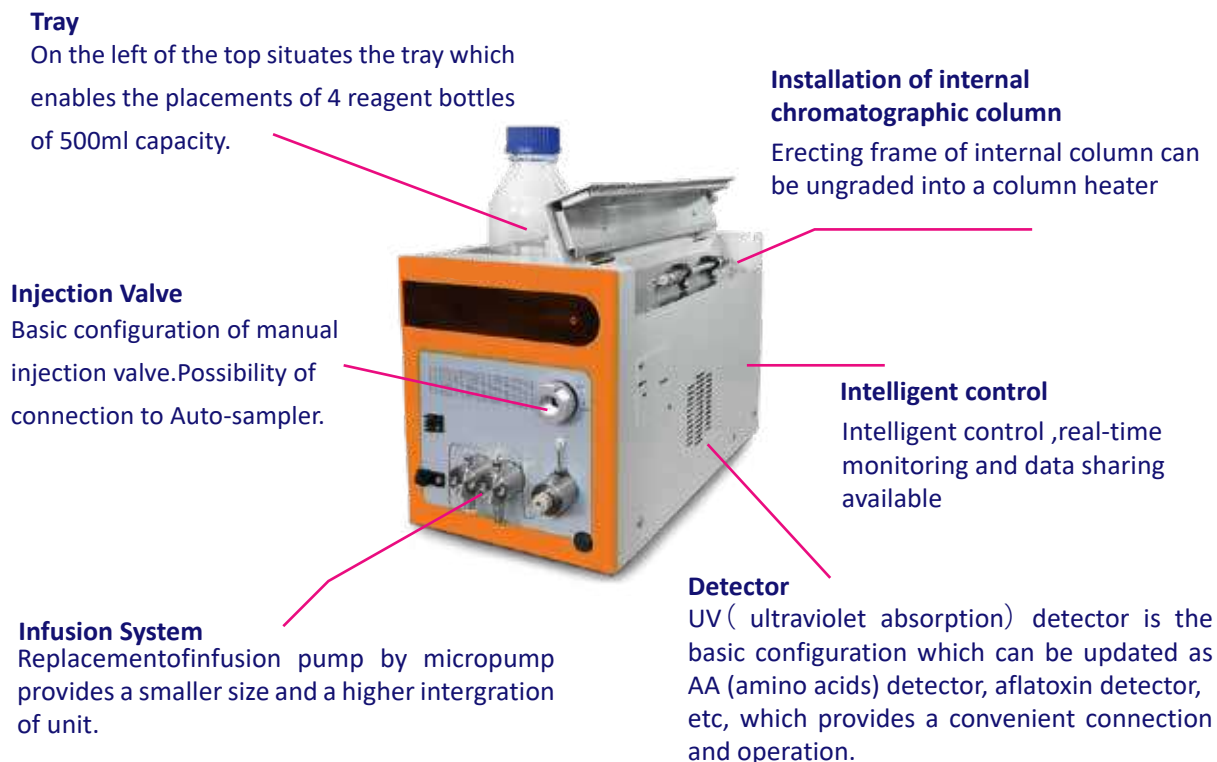
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►► Structure of Portable HPLC-3080



Portable HPLC-3080 is designed to fit the needs of uses in special fields, such as Chemical industry, agricultural feed, teaching and training. As a cost-effective and integrated liquid chromatograph, the installation, operating, service and moving of Portable HPLC-3080 is more convenient. On the basis of the analysis needs for food and feed industry, we have developed various application packages, such as fat-soluble vitamins, water-soluble vitamins, amino acid analysis, clenbuterol, melamine, aflatoxin, benzo[a]pyrene and Sudan III etc.

Portable HPLC-3080 performance liquid chromatograph is a brand new chromatographic instrument of high accuracy. The integration, the modularity and the intelligence are all in this instrument of a small size with the convenience of maintenance and free mobility.

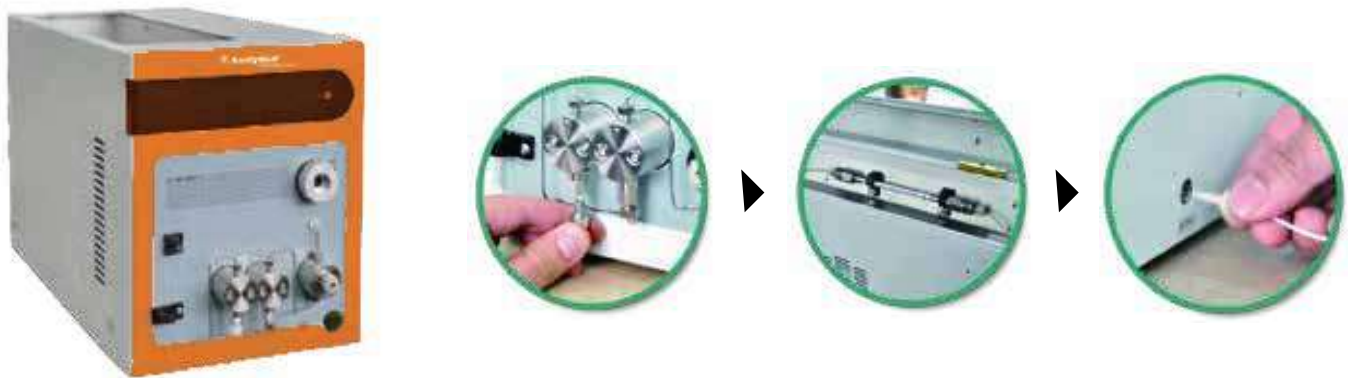
Adoption of the leading technology of microcomputer makes the control of unit with just the connection to the PC chromatographic working station possible. Simplification of operation will emancipate you from the hard work in the laboratory!

Integration reduces the distance of tubing between units and the quantity of interface. Thereby the reduction of dead volume and potential leaking point improves the overall performance and meanwhile provides a convenient maintenance.

►► Features of Portable HPLC-3080

►► Convenient connection and operation

Tubing between units and signal cables are all integrated in 3080. No need of a long-term training, high efficiency lies in the easy installation in just 3 steps before operation of unit and convenience of maintenance.



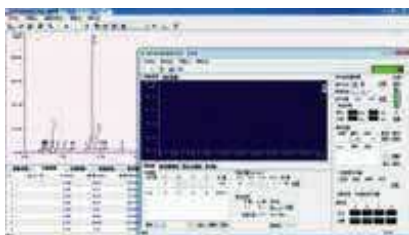
►► Accessories newly upgraded

Compared with the former edition, the HPLC upgrades from a normal piston seal to the one of high abrasion resistance, from check valve to integrated check valve. Under the guarantee of long service life, maintenance costs are significantly reduced.



►► Intelligent control system

3080 is equipped with intelligent chromatographic working station networked. Unit is controlled directly by chromatographic working station; state of unit and analytic results can be efficiently and conveniently acquired from the working station. The small unit 3080 is intergrated with a powerful intelligent control system like the leakage alarm system and the pump head decompression alarm system normly seen in the high-end instruments.



►► Detection of vitamin content in the feed

Sample: Vitamin A acetate 、Vitamin D3、Vitamin E acetate

Sample extraction: second method in standard(Methanol extract)

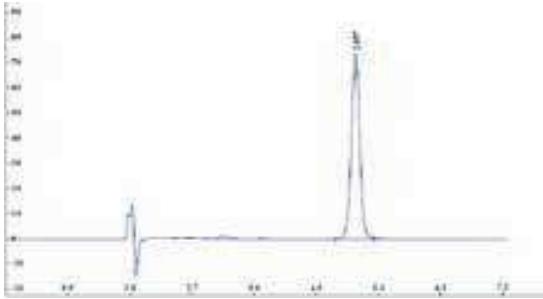
Instrument: 3080

Column: C18(L), 4.6*150mm, 5 μ m

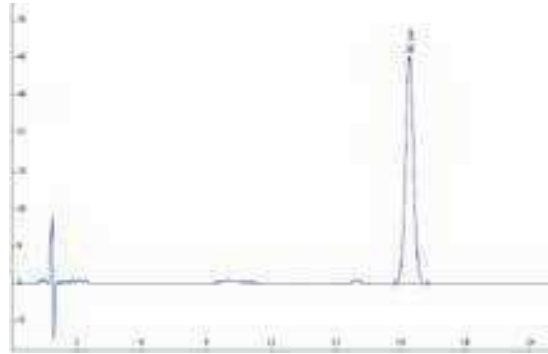
Mobile phase:methanol: water = 95:5, flow rate:1.0mL/min

Column temperature: 25 $^{\circ}$ C ; Injection Volume : 20 μ L

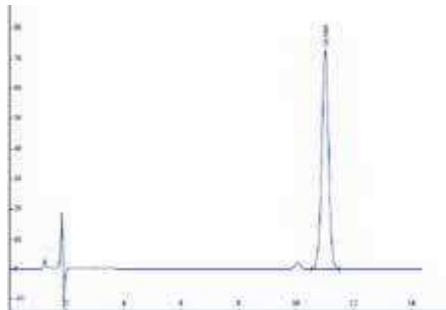
UV detection wavelength (nm) : Vitamin A acetate, 326; Vitamin D3, 264; Vitamin E acetate, 280



Vitamin A acetate



Vitamin D3



Vitamin E acetate

►► Detection of aflatoxin

Instrument: Portable HPLC-3080

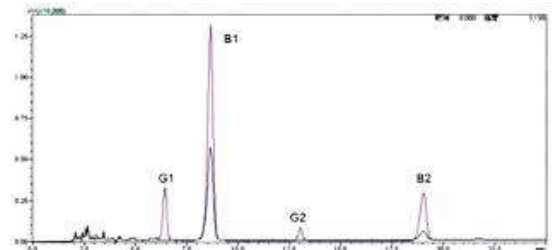
Mobile phase: water(2% acetic acid):methanol:acetonitrile = 70:15:15

Column: 150*4.6mm 2.6µm Phenomenex C18;flow rate:1.0mL/min

Column temperature: 40°C Injection Volume: 10µL

It can be used for Hemp and cannabis testing.

Corn samples



►► Portable HPLC 3080 Specifications

Flow Rate	0.001 ~ 5.000 ml/min
Flow Precision S_R	< 0.1%
Flow Accuracy S_S	±1%
Max Pressure	40MPa
Qualitative Repeatability	$RSD_6 \leq 0.2\%$ (Naphthalene/Methanol standards)
Quantitative Repeatability	$RSD_6 \leq 0.5\%$ (Naphthalene/Methanol standards)
Pressure Fluctuation	0.1MPa
Spectrum Bandwidth	8nm
Wavelength Accuracy	±1nm
Wavelength Precision	Below 0.1nm
Noise	$\leq 0.25 \times 10^{-5}$ Au (Static); $\leq \pm 1 \times 10^{-5}$ AU (Dynamic, given conditions)
Drift	$\leq 0.4 \times 10^{-4}$ Au/hr (Static); $\leq 0.2 \times 10^{-4}$ Au/hr (Static); (Dynamic, given conditions)
Minimum Detectable Concentration	$\leq 5 \times 10^{-9}$ g/ml (Naphthalene/Methanol standards)
Overall dimension:	L 455×W 220×H 267 (mm)



HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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