

Product Name :
Gas Chromatography

Product Code :
NLAB-EDUCATIONTVET39012



Description :

Gas Chromatography

Technical Specification :

Temperature Control :

Temperature Range: 7? ~ 400? above room temperature, (increment 1?)

Temperature Control Object: Column Box, front and back detector, front and back sampler, assists, total six channels.

Program ramps : 7 ramps in total

Program setting: 0.1?~40?/min(increment 0.1?)

Total time of total program : Up to 655 minutes, (increment 0.1?)

Hydrogen flame ionization detector (FID):

Minimum detectable quantity: $M?8 \times 10^{-12} \text{g/s}$ (C16)

Best test result: $M?3 \times 10^{-12} \text{g/s}$ (C16)

Noise: $5 \times 10^{-14} \text{A}$

Drift: 6×10^{-13} A/h

Linearity range: 106

Thermal conductivity detector(TCD):

Sensitivity: $5000 \text{ mV} \cdot \text{mL/mg}$ (C16)

Noise: $20 \mu\text{V}$

Drift: $30 \mu\text{V/h}$

Linearity rang: 104

High Sensitivity Thermal conductivity detector(HTCD):

Sensitivity: $10000 \text{ mV} \cdot \text{mL/mg}$ (C16)

Electron capture detector(ECD):

Detectability: $1 \times 10^{-13} \text{ g/s}$ (?-666)

Linearity range: 103

Maximum using temperature: 350?

Flame photometric detector(FPD):

Detectability: $2 \times 10^{-11} \text{ g/s}$ (P) (Parathion-methyl)

$1 \times 10^{-10} \text{ g/s}$ (S) (Parathion-methyl)

Nitrogen-phosphorus detector(NPD):

Detectability: $5 \times 10^{-12} \text{ g/s}$ (N) (Azobenzene)

$5 \times 10^{-13} \text{ g/s}$ (P) (Malathion)

(On programmed)

Photoelectric ion detector(PID):

Detectability: 1ppb (Benzene)

Includes Nitrogen Hydrogen and Air Generator

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