ION CHROMATOGRAPHY
CODE HLZ-1000

LIQUID ANALYSIS

ANALYSIS METHODS AND CONFIGURATIONS CAN BE CUSTOMIZED ACCORDING TO INSPECTION REQUIREMENTS

VIDEO



- Widely used in medicine, environment, food, chemistry, geology, research laboratories, etc.
- Can analyze anions, cations, and other polar substances in diverse matrix samples
- Auto-range conductivity detector, concentration signal can be switched from ppb to ppm
- On-line leakage monitoring, alarm and shutdown when leakage
- Intelligent switch on/off
- Gas-liquid separation, balances system pressure, ensures a smooth baseline

STANDARD DELIVERY

Main unit	1 pc
Infusion pump	1 pc
Conductivity detector	1 pc
Auto-sampler	1 pc
Anion chromatography column	1 pc
Anion protection column	1 pc
Anion suppressor	1 pc
Cation chromatography column	1 pc
Cation protection column	1 pc
Cation suppressor	1 pc
Analysis software	1 pc
Computer	1 pc
Column oven	1 pc
Gas-liquid separator	1 pc
Needle filter (0.22μm)	200 pcs
Consumable and spare parts	1 set*

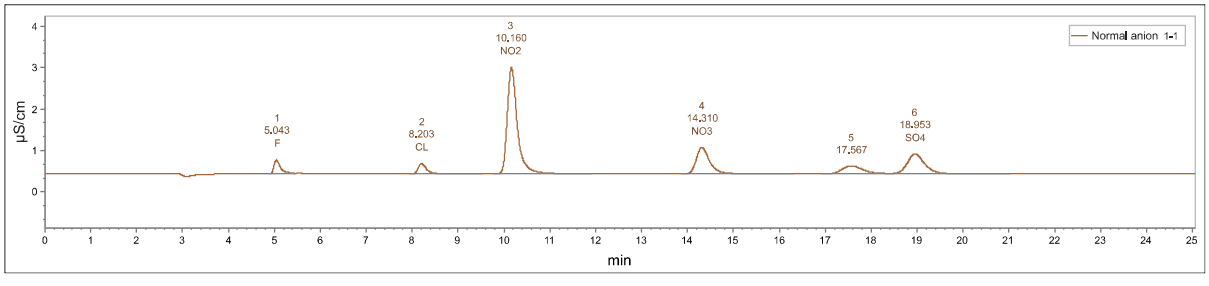
*Including common consumable tools such as connecting pipes and pipe joints



eluent generator
(**optional**)

application

drinking water analysis



Name	Retention time (min)	Concentration (mg/L)	Peak area (μS/cm)×min	Peak height (μS/cm)
Fluoride	5.043	0.1	0.057520	0.332568
Chloride	8.203	0.15	0.058278	0.250672
Nitrite	10.160	2	0.663449	2.573802
Nitrate	14.310	1	0.224313	0.647586
Sulfate	18.953	0.75	0.222333	0.479444

SPECIFICATION

Analysis material	cation	1. can analyse cations such as Li^+, Na^+, NH_4^+, K^+, Mg_2^+, Ca_2^+, etc. 2. can analyse betaine and choline chloride
	anion	1. can analyse anions such as F^-, Cl^-, Br^-, NO_2^-, PO_4^{3-}, NO_2^-, SO_4^{2-}, ClO_2^-, BrO_3^-, ClO_3^-, etc. 2. can analyse organic acids
Detector	type	thermostatic auto-range conductivity fetector
	concentration range signal	adaptive signal switching for ppb~ppm concentration range
	temperature control	control the temperature of the conductivity pool by software
	pool volume	≤0.8μL
	detection range	0~35000μS/cm
	detection resolution	0.0020nS/cm
	baseline noise	0.001μS/cm
	baseline drift	≤0.002μS/30min
	maximum pressure	10MPa
	minimum detection limit	Cl^-≤0.0005μg/mL, Li^+≤0.0005μg/mL
	instrument linearity	≥0.999
	qualitative repeatability	≤0.5%
	quantitative repeatability	≤1%
Infusion pump	type	high-pressure, low-pulse double-plunger tandem pump
	applicable solution	suitable for pH 0~14 eluents and reversed-phase organic solvents
	maximum pressure	42MPa (material PEEK)
	flow range	0.001~9.999mL/min
	allowable error	≤0.25%
	flow stability	≤0.3%
Suppressor	suppression technology	continuous self-regenerating micro-membrane electrical suppression technology
	flow path	parallel regenerative flow path
	high rejection capacity	200μeq/min (anion), 100μeq/min (cation)
	pressure resistance	2MPa (no leakage up to 6MPa)
	dead volume	≤40μL
Thermostatic system	temperature range	ambient temperature +5°C to 60°C
	allowable error	±1°C
	stability	≤0.1°C/h
Auto-sampler	type	triaxial auto-sampler
	number of vial	120 positions (2mL capacity)
	maximum Input volume	1000μL
	input method	full quantitative loop/partial quantitative loop/nondestructive sampling
	injection precision	full loop injection: RSD ≤ 0.3%
Power supply		110~220V, 50/60Hz, 150W
Dimension (L×W×H)		310×400×530mm
Weight		22kg

OPTIONAL ACCESSORY

Eluent generator	HLZ-EG120
Pretreatment column C18	HLZ-SPE-C18
Amperometric detector	HLC-AD150