

Almaty Branch Joint Lab

	Instrument	Type	Testing Indicators	Analyzing Contents
1	pH Meter	--	pH	pH value in water or soil samples, indicating the degree of acid and alkali in water or soil
2	TOC/TN Analyzer	Multi N/C 2100	Organic carbon or nitrogen	Total carbon content in soil or plant samples; the content of soluble organic carbon, total carbon and total nitrogen in water samples
3	Automatic Kjeldahl Nitrogen Determinator	Kjeltec 8420	Alkali-hydrolyzale nitrogen	Inorganic nitrogen and organic nitrogen in soil or plant samples; the cation exchange capacity of soil, that is, total volume of various cations capable being absorbed by soil colloid
4	Ion Chromatograph	ICS600	Anion or cation	Content of chloride ion, sulfate ion, potassium ion, sodium ion, calcium ion and magnesium ion in water, soil or plant samples
5	Automated Wet Chemistry Analyzer - Continuous Flow Analyzer (CFA)	SAN++	Nitrate nitrogen, ammonia nitrogen, nitrite nitrogen, phosphorus	Content of ammonium and nitrate nitrogen in water and soil samples
6	UV-Vis Spectrophotometry	Cary 60	UV-visible light absorption	Content of soluble sugar, soluble protein, proline, starch, peroxidase, malondialdehyde, catalase and superoxide dismutase in plant samples; the total phosphorus content in plant and soil samples, including organic phosphorus and inorganic phosphorus
7	Atomic Absorption Spectroscopy	ZEEnit650P	Inorganic elements	Major and micro-trace elements in metallurgy, geology, mining, petroleum, light industry, agriculture, medicine, health, food and environmental monitoring
8	Potentiometric Compact Titrators	G20	pH, acid-alkali titration, complexometric titration	pH value in water or soil samples, indicating the degree of acid and alkali in water or soil; and the carbonate or bicarbonate in soil
9	Cutting-grinding Head, Impact Grinding Head	MF 10.1 MF 10.2	Sample crushing	Crushing the fibrous materials such as paper and vegetables, as well as plastics and low density materials; crushing the brittle and hard materials such as ore and building materials. Hardness 6 Mhos
10	Water Purification System	FBZ2002-UP	Pure water or ultra-pure water	Supply of the pure water or ultra-pure water
11	Optical Microscopy	BA2303IF	Microscopic observation	Microscopic observation for section
12	High-speed Centrifuge	GL-20G-II	Centrifugal separation	Solid-liquid centrifugal separation
13	Analytical Balances	Ssrtorius BT 25S	Accurate weighing	Accurate weighing
14	Rotary Evaporator	RE52A	Concentration	Sample concentration
15	Ultra-low Temperature Refrigerator	--	Ultra-low temperature environment	Preservation of samples in ultra-low temperature environment
16	Electrical Conductivity Meter	DDSJ-308A	Electrical conductivity	Measuring the electrical conductivity
17	Automatic Digester	EHD20	Heating	Digestion of soil, plants and other samples
18	Ultrasonic Cleaner	KQ-500E	Ultrasonic oscillation	Ultrasonic cleaning of samples or vessels
19	Electric Thermo Static Drying Oven	--	Drying	Thermo drying of samples or vessels
20	Water Bath Oscillator	--	Oscillation extraction	Oscillation extraction of samples