

Automated Immunohistochemical Stainer

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Automated Immunohistochemical Stainer LD-LAIS-B11 is designed to automate immunohistochemistry (IHC), in situ hybridization (ISH), double staining, and related tissue staining workflows. With high-throughput processing, intelligent reagent management, and precise temperature control, the system delivers consistent, reproducible staining results for clinical pathology laboratories, hospitals, diagnostic centers, and research institutions.

Features:

- Fully automates drying, dewaxing, antigen retrieval, immunohistochemical staining, silver staining, and in situ hybridization procedures
- Four independently operating slide racks process up to 48 slides simultaneously with multiple staining protocols
- Supports manual antibody reagent loading for flexible protocol optimization
- Integrated one-dimensional reagent and two-dimensional sample barcode management for accurate traceability
- Steel-needle liquid transfer system with capacitive liquid-level sensing ensures precise reagent dispensing
- Automatic waste liquid discharge minimizes operator exposure to hazardous waste
- Special siphon technology provides uniform liquid coverage and efficient cleaning
- Automatic liquid sealing film prevents reagent evaporation and maintains stable incubation conditions
- Built-in self-diagnostic system, reagent mixing, editable protocols, and comprehensive data storage with quality control
- Supports companion diagnostic assays, including ALK, PD-L1, HER2, and other biomarker analyses

Applications:

Ideal for automated immunohistochemistry (IHC), in situ hybridization (ISH), double staining, and other tissue staining procedures in pathology laboratories, hospitals, cancer research centers, academic institutions, and diagnostic laboratories.

Specifications:

Model no.	LD-LAIS-B11
Net Weight	135 kg
Throughput	48 Slides (12 × 4)
Sample Type	Tissue & Enriched Cell Specimens
Cooling Time	95°C to 30°C in ≤15 min
Gross Weight	288 kg
Heating Time	25°C to 95°C in ≤10 min
System Fluids	Pure water, cleaning fluid, repair fluid, xylene, ethanol, hydrogen peroxide, toxic & non-toxic waste

Processing Time	48 slides in < 3.5 hours
Pipetting Volume	30–500 µL (10 µL increments)
Processing Method	Single-rack batch processing, 4 independent racks
Reagent Positions	44
Pipetting Accuracy	C.V. ≤ 5% at 30 µL
Repair Temperature	90–100°C
Reagent Refrigeration	8–15°C (±2°C)
Incubation Temperature	30–50°C (±2°C)
Communication Interface	CAN
Primary Antibody Volume	150 µL
Reagent Bottle Capacity	15 mL
Dimensions (W × D × H)	1010 × 760 × 810 mm
Temperature Control Accuracy	95°C ± 5°C