BELUGA

Automated liquid handling robot for NAT workflows

Nucleic Acid Testing (NAT) has become critical in modern infectious disease diagnostics, enabling early detection of transfusion-transmissible infections in blood screening.

The reduction of the diagnostic window period, supports faster indentification of respiratory pathogens, STI targets, Gastro intestinal infections, TB, and other infectious disease panels.



Beluga NAT is a compact, automated liquid-handling platform built to standardize upstream sample preparation for NAT workflows. It automates key pre-PCR steps helping laboratories reduce manual handling, improve traceability, and maintain consistent sample processing across their routine workflows.

Built for traceable NAT workflows

- Compatible with LDT workflows
- Compact footprint
- Direct sample loading
- Multi-sample processing
- 2D-Barcode tracability
- PCR-ready output

Software-guided NAT run setup



Beluga NAT software enables users to select a pre-configured workflow or create a new run by defining workflow parameters. A guided interface supports reagent loading, plate mapping, output format selection, run review, and run initiation for consistent setup.

Barcode-linked traceability is maintained throughout the process—from primary tube registration and plate setup to nucleic acid extraction and final eluate generation—providing complete sample visibility, audit readiness, and chain-of-custody assurance.

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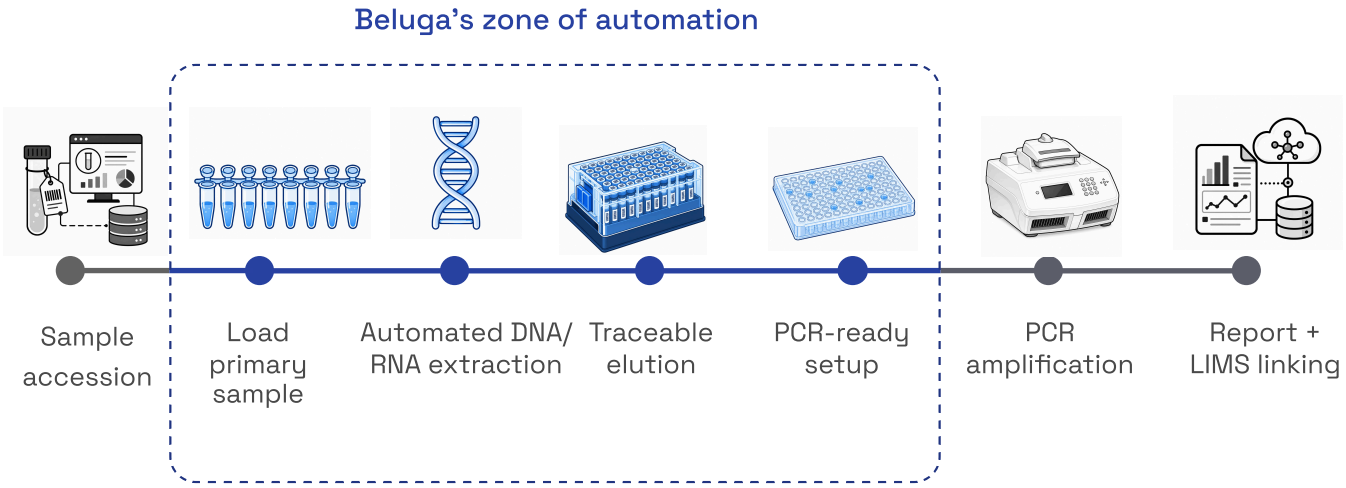
From donor sample to PCR-ready output



Sample-to-assay compatibility

Beluga supports a wide range of NAT applications, enabling labs to process diverse sample types for downstream testing of respiratory, infectious disease, and blood-borne pathogens.

Input sample type	Segment	Pathogens targeted
Nasopharyngeal / oropharyngeal swabs, aspirates, BAL, saliva,	Respiratory panel assays	Influenza A/B, RSV, adenovirus, rhinovirus, enterovirus, parainfluenza virus, SARS-CoV-2
VTM/UTM, BAL, sputum	Respiratory panel assays	SARS-CoV-2, Influenza, RSV, rhinovirus
Stool specimens or stool suspension	GI panel assays	Salmonella, Shigella, Vibrio, Aeromonas, Rotavirus, Norovirus, Adenovirus, Astrovirus, Giardia
Human serum or EDTA plasma	STI pannel assays	HIV-1 RNA, HBV DNA
Plasma or serum	Blood screening - Triple H screening	HIV, HBV, HCV

Ordering information

Product name	SKU	Description
Beluga – NAT	CBWM101	Extraction, PCR Prep, Chain of Custody
Beluga Pro	CBWM101- P	Extraction, PCR Prep, Onboard Quant

CB-MKT-B-022/v1.1

See how Beluga can streamline your NAT workflows.

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