n-Safe

Biosafety cabinets, Isolators
and **Laminar Air Flow Solutions**
engineered by **experience**.

n-Safe Isolators

n-Safe Isolator Cyto
n-Safe Isolator Steril

nordic labtech

Special is our standard.

n-Safe

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n-Safe

Engineered by experience

Maximize Safety and Precision with n-Safe Advanced Isolators for Cytotoxic Drug and Pharmaceutical Preparation

Nordic Labtech's Engineering Team has decades of experience when it comes to Laminar flow and Containment control equipment.

Our advanced isolators for cytotoxic drug and pharmaceutical preparation are designed to provide maximum safety, sterility, and precision throughout the compounding process. With a fully enclosed workspace and customizable pressure settings, it offers optimal protection for both operators and products when handling hazardous substances. Equipped with high-efficiency HEPA filtration and controlled unidirectional airflow, the isolator ensures a sterile environment that meets stringent regulatory standards.

Its ergonomic design, intuitive controls, and efficient material transfer systems allow users to work comfortably and efficiently without compromising safety or productivity. Whether used in hospitals, pharmacies, or specialized compounding facilities, n-Safe Isolators are a reliable, cost-effective solution that minimizes occupational exposure and enhances product integrity. By combining safety, compliance, and performance, it supports a higher standard in pharmaceutical preparation and protects both personnel and patients.

Worldwide remote support

n-Safe isolators can also be ordered with an unique remote support - offering unmatched user support, trouble shooting, software adjustments and other update services. Furthermore the system allows up to 12 months of continuous data backup.

With our customer´s approval we can access the cabinet remotely wherever it is installed, which only requires an open internet access. High security and without managing firewalls.

Compact design

n-Safe isolators are by far the most compact devices, available in the market, while offering best usable tabletop space and inner dimensions. With its low depth and height, it is easy to transport n-Safe isolators into your laboratory. The low height also allows you to use elevated support stands with a working height of up to 1100 mm and without limiting the possibility of ducting or jeopardizing safety due to coming too close to the ceiling.

Noise

Field tests proved, that the noise level of n-Safe isolators was measured <46 dB(A) when operating according to EN12469 at 0,45 m/s inflow and 0,28 m/s down flow. By applying the latest filter and fan technology into our products, we achieve best results. State of the art filter technology – superior low noise!

User friendliness

The n-Safe R&D team members have had the users in mind when they designed the isolators, its display interface and overall intuitivity. Ease of use and the best ergonomics possible have been their development targets.

“We offer superior flexibility, functionality and ergonomics to our customers”.

n-Safe isolators always come with low noise levels, comfortable dimmable LED light and a wide range of options and accessories.

Standard features

All n-Safe isolators come with optimized ergonimics - dimmable LED-light, large glove ports and excellent leg space. Large front window for best possible view. User fiendly segmented 300 mm wide tabletops allow easy cleaning. Digital controller with a 7" touch display with intuitive user interface.

Clean room design

We work closely with our customers to develop and to produce our isolators, which offer unmatched quality, accuracy and reliability with the highest level of cleanability.

Superior Operator and Product Protection

n-Safe Isolator Cyto

Premium Performance and Design for Grade A Conditions

The main chamber features a high-efficiency unidirectional airflow of 0.45 m/s ±20%, delivering 1300 air changes per hour to ensure consistently reliable Grade A conditions.

Segmented stainless steel tabletops come as standard, offering optimized ergonomics and effortless cleaning. The inner chamber is finished with white powder coating to maximize light reflection and visibility. One-piece tabletop is also available as optional extra.

Both the pre-filter and main (downflow) filter are high-performance H14 type. The pre-filters are designed with a secure safe-change system, allowing double-sealing before removal for maximum operator protection.

Transfer chambers are equipped with H14 filters for both supply and exhaust air. Sealing lids on the supply filters enable easy and reliable pressure decay testing.

Electrically driven automatic inner doors, operated via convenient foot switches, eliminate the need for compressed air – simplifying installation and operation.

The electrically adjustable support stand ensures a stable working height between 750–1050 mm for ergonomic comfort. A large front viewing window with gas spring support and 300 mm glove ports further enhances usability and operator comfort.

A fully digital control system with a large, intuitive touch screen displays all critical operating parameters. Built-in automatic pressure decay testing adds an extra layer of assurance.

Brilliant dimmable LED lighting provides 0–2000 Lux on the work surface with an exceptional CRI ≥RA95 for optimal visual clarity.

Fully compliant with EN ISO 14644-7 and GMP Annex 1 requirements – designed to meet the highest standards in cleanroom technology.

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Next-Level Operator and Product Protection – Advanced Isolator Technology

- **Superior Operator Safety**
  Negative pressure isolator ensures maximum protection and a safe working environment.
- **Optimal Aseptic Conditions**
  Main chamber designed to maintain Grade A conditions for exceptional product protection and aseptic handling.
- **Smart Transfer Chambers**
  Dual transfer chambers with programmable interlock times for safe and efficient material transfer.
- **Automated Leak Testing**
  Built-in pressure decay leak test guarantees system integrity and peace of mind.
- **Quick & Easy Filter Replacement**
  Circular H14 prefilter cartridges designed for effortless change-out and reduced downtime.
- **Seamless Workflow**
  Large automatic sliding doors between chambers, foot switch-operated and electrically driven – no compressed air required.
- **Fully Digital Control System**
  User-friendly touchscreen interface on the front panel for intuitive operation and complete control.
- **Proven Performance**
  Based on the renowned n-Safe Safety Cabinet platform, trusted by thousands of customers worldwide.
- **Made in Sweden**
  Engineered, developed, and manufactured with precision and quality craftsmanship.
- **Smart Integration Options**
  Optional built-in touchscreen monitor in the rear wall of the main chamber for enhanced usability.
- **Hygienic & Functional Design**
  Sliding trays in the transfer chambers with excellent cleanability for streamlined processes.
- **Flexible Ventilation Control**
  Available with internal or external exhaust fans, fully managed by the isolator's controller.

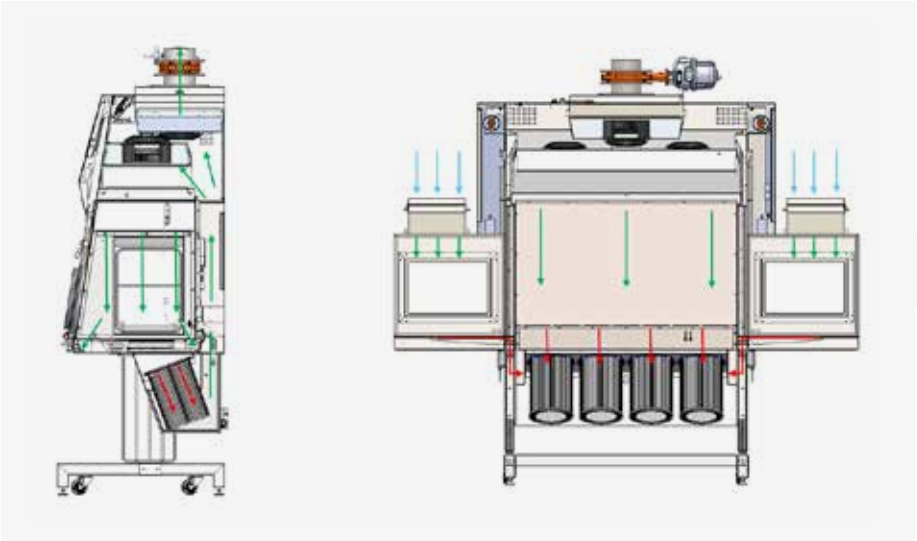
Models and dimensions

MODEL	DESCRIPTION	EXT DIMENSIONS (WXDXH) MM	INT DIMENSIONS MAIN CHAMBER (WXDXH) MM	INT DIM. TRANSFER CHAMBERS (WXDXH) MM	INNER DOOR OPENING (WXH) MM
N-SAFE ISOLATOR CYTO 1200-I	Two transfer chambers, two glove ports, built-in exhaust fan	2503 x 846 x 2300 (2300-2655 with el. stand)	1200 x 601 x 700	524 x 564 x 508	321 x 417
N-SAFE ISOLATOR CYTO 1500-I	Two transfer chambers, three glove ports, built-in exhaust fan	2803 x 846 x 2300 (2300-2655 with el. stand)	1500 x 601 x 700	524 x 564 x 508	321 x 417
N-SAFE ISOLATOR CYTO 1800-I	Two transfer chambers, four glove ports, built-in exhaust fan	3107 x 846 x 2300 (2300-2655 with el. stand)	1800 x 601 x 700	524 x 564 x 508	321 x 417
N-SAFE ISOLATOR CYTO 1200-E	Two transfer chambers, two glove ports, external exhaust fan	2503 x 846 x 2300 (2300-2655 with el. stand)	1200 x 601 x 700	524 x 564 x 508	321 x 417
N-SAFE ISOLATOR CYTO 1200-E	Two transfer chambers, three glove ports, external exhaust fan	2803 x 846 x 2300 (2300-2655with el. stand)	1500 x 601 x 700	524 x 564 x 508	321 x 417
N-SAFE ISOLATOR CYTO 1200-E	Two transfer chambers, four glove ports, external exhaust fan	3107 x 846 x 2300 (2300-2655with el. stand)	1800 x 601 x 700	524 x 564 x 508	321 x 417

The product n-Safe Isolator Cyto (classification code 2B352.f.2.) is subject to export control and requires an export authorization for export from the EU.

Air flow principles

Ambient air is drawn through H14 filters located at the top of the transfer hatches, creating a clean environment in the transfer hatches, and then pass through a second stage of H14 filters, continuing down beneath the work surfaces and then passing through the main H14 filters located under the work area. The air is then drawn up via the isolator's return air channel at the back, where the majority pass down through the H14 downflow filter as a laminar air flow over the work surface, creating clean conditions in the main chamber. A part of the air exits through the exhaust H14 filter, thereby creating negative pressure within the unit.



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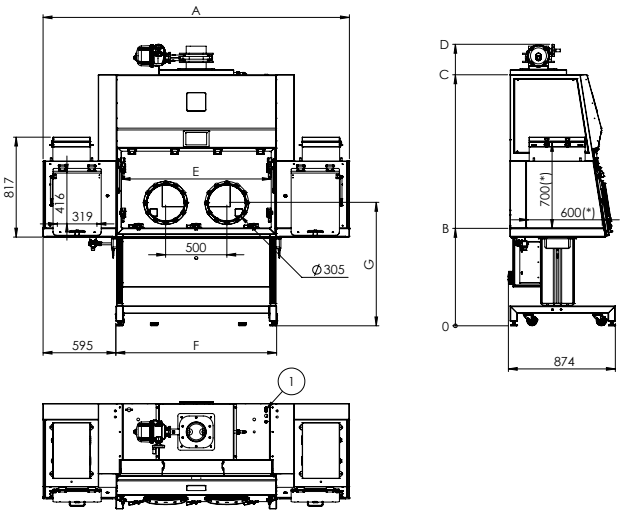
Technical specifications

Size		1200	1500	1800
Dimensions				
External dimensions incl support, table top at 800 mm, WxDxH	mm	2503 x 846 x 2300	2803 x 846 x 2300	3107 x 846 x 2300
Internal dimensions main chamber, WxDxH	mm	1200 x 601 x 700	1500 x 601 x 700	1800 x 601 x 700
Front window, size	mm	1200 x 590	1500 x 590	1800 x 590
Glove ports, diam	mm		300	
Door opening, inner door transfer hatch (WxH)	mm		321 - 417	
Work height, electrically elevated support stand	mm		750x1050	
Minimum door way, width	mm		850	
Weight				
Equipment	kg	540	580	630
Air Flow				
Vertikal Flow	m/s	0,45 +/-20%	0,45 +/-20%	0,45 +/-20%
Deviation	+/- %		<8	
Total air changes per hour, appr			1300	
Operating pressure	Pa		80-100	
Noise				
Noise level, measured according to EN12469 measured under optimal conditions and settings	dB(A)		52	
Ventilation				
Down flow rate	m3/h	1170	1460	1750
Exhaust flow rate	m3/h		360	
Filter Technology				
Main-/Pre-/Transfer hatch-	type		HEPA H14 EN1822, 99,999% at 0,3 µm particle size	
Light				
LED	lux		0-2000, dimmable	
Electrical data				
Voltage frequency	V/Hz		220-240/50-60 or 110-120/50-60	
Power consumption, from	W	230	290	340



Notes

POS.	Description
1	Power Supply Unit

Dimensions

Cabinet	A-Total width	B-Work height	C-Top	D-Highest point	E-Open front width	F-Stand width	G-Glove port height	W-Weight
n-Safe Isolator Cyto 1200	2503	800-1155	2052-2407	2300-2655	1165	1312	1009-1364	540
n-Safe Isolator Cyto 1500	2803	800-1155	2052-2407	2300-2655	1165	1612	1009-1364	580
n-Safe Isolator Cyto 1800	3107	800-1155	2052-2407	2300-2655	1165	1918	1009-1364	630

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n-Safe Isolator Steril

Premium Performance Meets Cutting-Edge Design

The isolator is engineered to provide superior aseptic conditions and precise control for optimal product safety. With unidirectional airflow of 0.45 m/s ±20% and 2300 air changes per hour, the main chamber guarantees Grade A conditions, ensuring the highest level of sterility. The segmented stainless steel tabletops, designed for easy cleaning, offer both excellent hygiene and ergonomic benefits, enhancing overall user comfort. The interior is white powder coated, improving illumination for a bright and clear workspace, perfect for accurate operations.

Equipped with H14 filters, the transfer chambers provide both supply and exhaust air filtration, ensuring exceptional air quality. Sealing lids on the supply filters are designed for efficient pressure decay testing, giving you confidence in the system's integrity. Automatic, electrically driven inner doors are easily controlled by foot switches, eliminating the need for pressurized air and enhancing ease of use.

The isolator's stable electrically elevated support stand allows for a customizable tabletop working height ranging from 750 to 1050 mm, accommodating various user preferences and ensuring ergonomic comfort during extended use. A large front window, supported by gas springs, features glove ports with a diameter of 300 mm, offering enhanced ergonomics and accessibility for users.

For ultimate control, the isolator is equipped with a fully digital controller and a large touchscreen display that shows all critical operating parameters. Its intuitive interface ensures easy operation, while the built-in automatic pressure decay test provides a seamless and reliable safety check. The dimmable LED lighting offers a range of 0-2000 Lux, with a high Color Rendering Index (CRI ≥RA95), providing optimal visibility and a comfortable working environment.

Fully compliant with EN ISO 14644-7 and GMP Annex 1 standards, this isolator ensures top-tier quality, reliability, and adherence to industry regulations. It's the perfect solution for those who demand the highest standards in aseptic handling and operational efficiency.

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Advanced Positive Pressure Isolator for Superior Drug Handling under Aseptic Conditions

- **Enhanced Product Protection**
  pressure isolator ensures optimal protection for your products, maintaining the highest standards of safety.

- **Grade A Conditions for Ultimate Aseptic handling**
  The main chamber maintains Grade A conditions, guaranteeing exceptional product protection and aseptic handling at all times.

- **Efficient Transfer Process**
  Dual transfer chambers with programmable interlock times provide seamless, secure material transfers without compromising safety.

- **Automated Leak Testing**
  Built-in automatic pressure decay leak test ensures system integrity, delivering reliable performance you can trust.

- **Streamlined Access & Operation**
  Large automatic sliding inner doors between the main chamber and transfer chambers are foot-switch controlled and electrically driven, eliminating the need for pressurized air.

- **Intuitive Digital Control**
  Fully digital touchscreen controller with a user-friendly interface offers easy operation and full control at your fingertips.

- **Proven Performance**
  Based on the highly trusted *n-Safe Safety Cabinet,* delivering exceptional reliability in thousands of installations worldwide.

- **Crafted in Sweden**
  Developed, designed, and manufactured in Sweden, known for precision engineering and top-tier quality.

- **Enhanced User Experience**
  Optional integrated touchscreen monitor on the rear wall of the main chamber for added convenience and control.

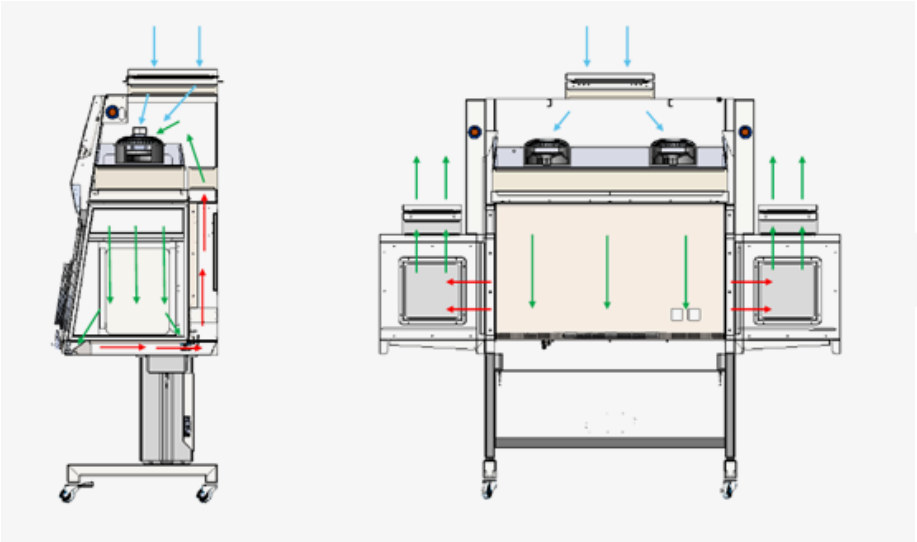
- **Effortless Maintenance**
  Sliding trays in the transfer chambers with excellent cleanability for streamlined processes.

Models and dimensions

MODEL	DESCRIPTION	EXT DIMENSIONS (WXDXH) MM	INT DIMENSIONS MAIN CHAMBER (WXDXH) MM	INT DIM. TRANSFER CHAMBERS (WXDXH) MM	INNER DOOR OPENING (WXH) MM
N-SAFE ISOLATOR STERIL 1200	Two transfer chambers, two glove ports, built-in exhaust fan	2503 x 846 x 2163 (2163-2518 with el. stand)	1200 x 601 x 700	524 x 564 x 508	321 x 417
N-SAFE ISOLATOR STERIL 1500	Two transfer chambers, three glove ports, built-in exhaust fan	2803 x 846 x 2163 (2163-2518 with el. stand)	1500 x 601 x 700	524 x 564 x 508	321 x 417
N-SAFE ISOLATOR STERIL 1800	Two transfer chambers, four glove ports, built-in exhaust fan	3107 x 846 x 2163 (2163-2518 with el. stand)	1800 x 601 x 700	524 x 564 x 508	321 x 417

Air flow principles

Ambient air is drawn through G4 prefilter located at the top of the isolator continuing through the fans and the H14 downflow filter as a laminar flow over the work area, creating clean conditions in the main chamber. A part of the air is drawn further into the transfer hatches through H14 filters and will then exit the transfer hatches also through H14-filters. The rest of the air is being recirculated internally through the isolator's return air channel. In the top of the return air channel a H14-filter is present to prevent contaminated air to get into the main chamber if the fans are stopping.



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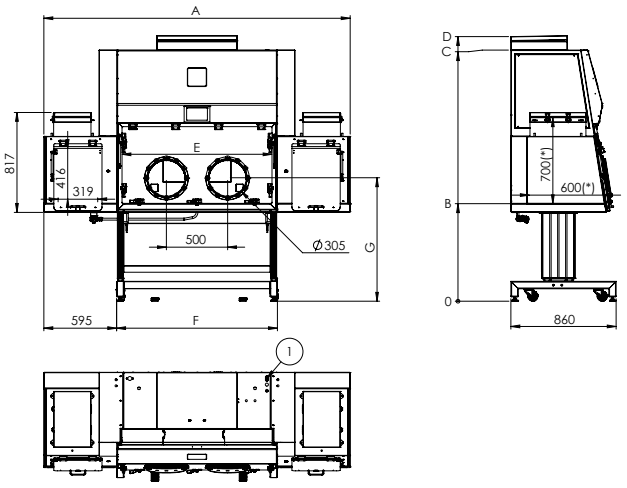
Technical specifications

Size		1200	1500	1800
Dimensions				
External dimensions incl support, table top at 800 mm, WxDxH	mm	2503 x 846 x 2163	2803 x 846 x 2163	3107 x 846 x 2163
Internal dimensions main chamber, WxDxH	mm	1200 x 601 x 700	1500 x 601 x 700	1800 x 601 x 700
Front window, size	mm	1200 x 590	1500 x 590	1800 x 590
Glove ports, diam	mm		300	
Door opening, inner door transfer hatch (WxH)	mm		321 - 417	
Work height, electrically elevated support stand	mm		750x1050	
Minimum door way, width	mm		850	
Weight				
Equipment	kg	520	560	610
Air Flow				
Vertikal Flow	m/s		0,45 +/-20%	
Deviation	+/- %		<8	
Total air changes per hour, appr			1300	
Operating pressure	Pa		80-100	
Noise				
Noise level, measured according to EN12469 measured under optimal conditions and settings	dB(A)		52	
Ventilation				
Down flow rate	m3/h	1170	1460	1750
Filter Technology				
Main-/Pre-/Transfer hatch-	type		HEPA H14 EN1822, 99,999% at 0,3 µm particle size	
Light				
LED	lux		0-2000, dimmable	
Electrical data				
Voltage frequency	V/Hz		220-240/50-60 or 110-120/50-60	
Power consumption, from	W	230	290	340



Notes

POS.	Description
1	Power Supply Unit

Dimensions

Cabinet	A - Total Width	B - Work height	C - Top	D - Highest point	E - Open front with	F -Sand with	G -Glove port height	W -Weight
n-Safe Isolator Steril 1200	2503	800-1155	2052-2407	2163-2518	1165	1312	1009-1364	520
n-Safe Isolator Steril 1500	2803	800-1155	2052-2407	2163-2518	1165	1612	1009-1364	560
n-Safe Isolator Steril 1800	3107	800-1155	2052-2407	2163-2518	1165	1918	1009-1364	610

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About Nordic Labtech.

Our business concept is to offer high-tech products and solutions within advanced protective ventilation, LAF equipment and incubators, heating and climate cabinets to customers in research, hospitals and pharmaceutical as well as other industries.

We provide technical and financial added value, that helps our customers to optimize processes and applications. Our products are sold by distributors in most European countries and the rest of the world.

Our History

2013
Nino Labinterior (NLI) is founded.

2014
Developed and launched customized laminar airflow solutions for pharmaceutical and animal research facilities.

2015
Developed and launched n-Safe Isotope for nuclear medicine applications.

2016
Developed and launched n-Safe biological safety cabinets on the Scandinavian market Public Health, UK certifies n-Safe Class II safety cabinet.

2017
Developed together with Karolinska Institute and launched n-Safe mobile cage changing units on the Scandinavian market ISO9001 and ISO14001 certified.

2018
NLI introduces the widest range of safety cabinets on the European Market, Achema Frankfurt. This year NLI is also appointed the largest project for safety cabinets in Scandinavia, Veterinary Institute in Oslo being the largest University building in Norway.

2019
NLI acquires Termaks A/S, a leading manufacturer of ovens and incubators in Scandinavia, by asset acquisition
TUV Nord certified manufacturer of biological safety cabinets.

2020
NLI market leader in Scandinavia for standard safety cabinets, customized laminar airflow solutions and controlled environment, ovens and incubators Partners in Europe (Germany, Benelux, Switzerland among others) establishes a strong position for NLI products on the European market.

2021
NLI is appointed the largest project for safety cabinets in Europe by MEET/RIVM in Utrecht, Netherlands. New long term majority owner Screen Capital, committed to invest for our future expansion.

2022
NLI is appointed several large contracts/projects in Norway making us the absolute market leader also in Norway.
The company is rebranded from Nino Labinterior to Nordic Labtech (NLT).

2023
NLT take our new production facility in use – the largest and most modern facility in Europe, for manufacturing of BSC/LAFs and incubators.

2024
NLT is appointed the contract of all BSCs and Laminar Flow cabinets, in total 180 cabinets, to Statsbygg's Livsvitenskapsbygget in Oslo Norway.

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n-Safe

Contacts.

www.nordiclabtech.com

info@nordiclabtech.com

+46 (0) 300 358 50

Äskatorpsvägen 4,
SE-439 74 Fjärås, Sweden

nordic labtech