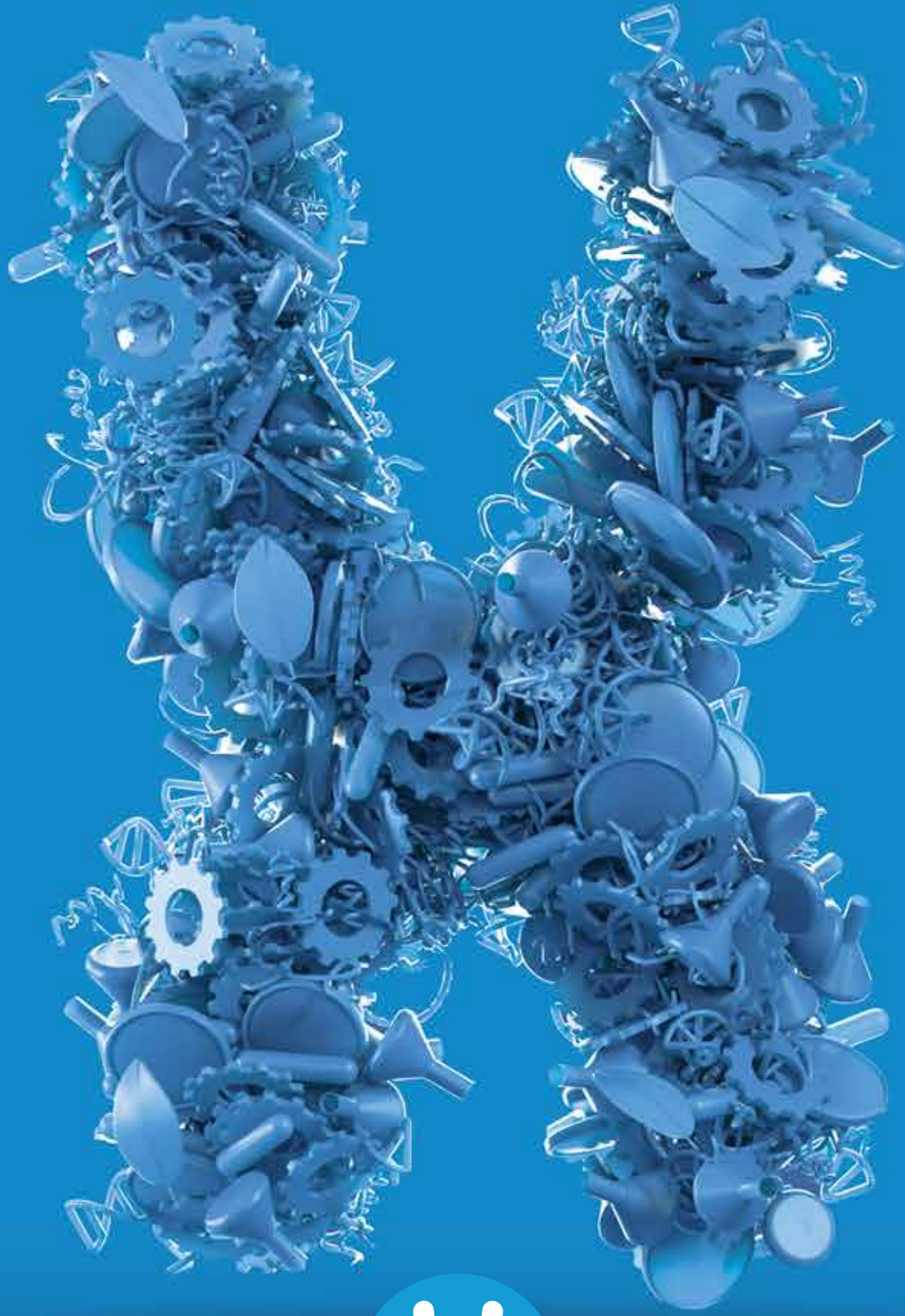
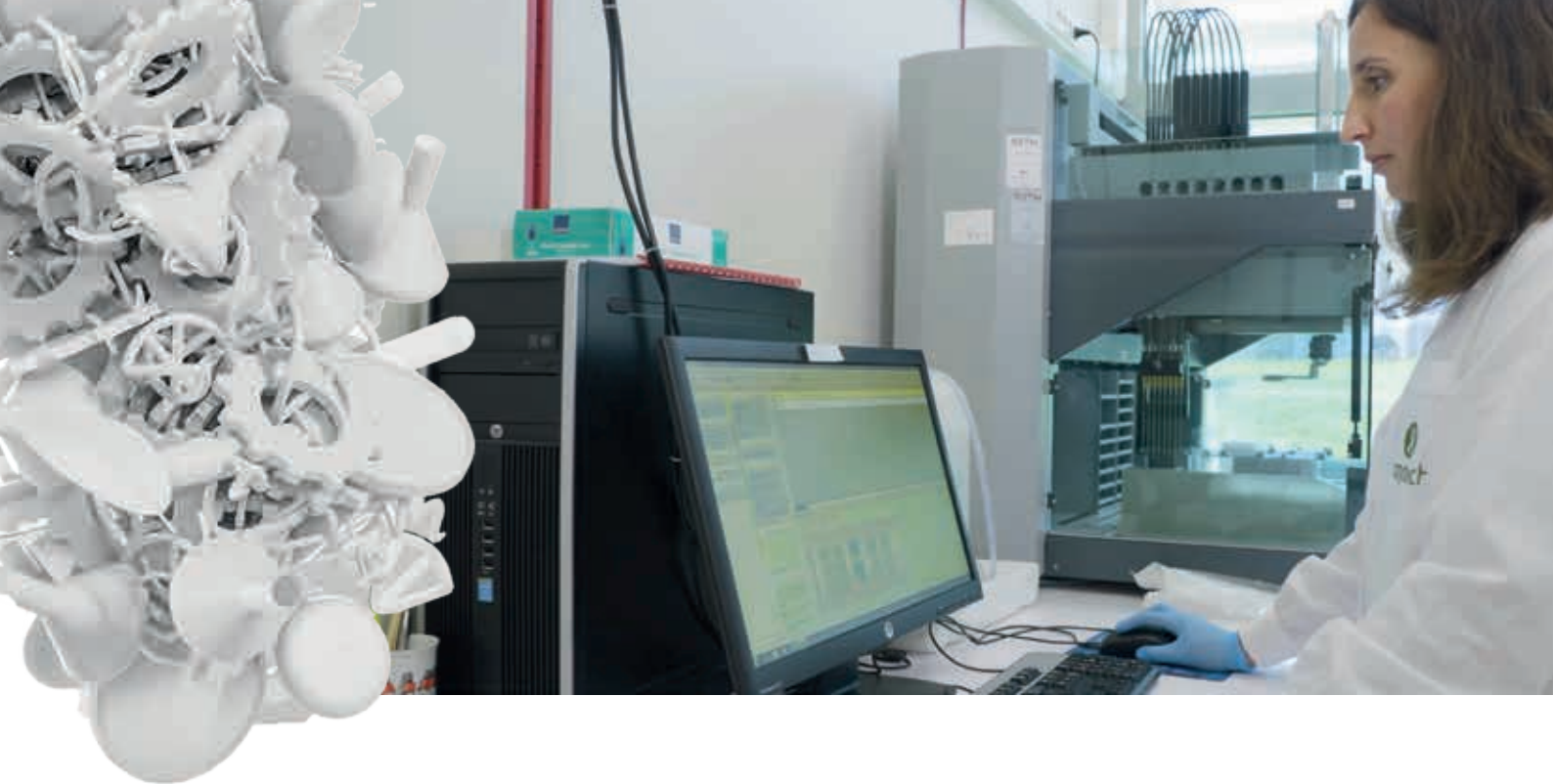


**Molecular Diagnostics 2023/2024**



**nzytech**



## Welcome to the NZYTech 2023/2024 catalogue of Molecular Diagnostics

This year, NZYTech is proud to present an updated comprehensive range of high-quality molecular diagnostic products that are designed to meet the needs of scientists, molecular testing experts and healthcare professionals around the world. Our catalogue features an extensive selection of qPCR and RT-qPCR kits, diagnostic enzymes, well-balanced master mixes, and nucleic acid extraction kits to provide a complete spectrum of solutions in molecular diagnostics. NZYTech well-proven solutions aid researchers and clinicians around the world by serving more than 70 Countries, across 5 Continents.

We have invested heavily in R&D to develop advanced technologies that improve the sensitivity, specificity, and speed of molecular assays. Committed to the ever-growing field of molecular testing, our scientists are deeply engaged in the development of novel disruptive solutions that enable our customers to achieve accurate and reliable results in their research and diagnostic applications. Our 2023 catalogue includes a variety of new products that reflect our dedication to innovation. These include qPCR kits for the detection of fungal, bacterial and viral pathogens and DNA extraction kits that enable rapid and efficient purification of nucleic acids from various sample types.

In addition to our product offerings, NZYTech is committed to providing outstanding customer service and technical support. Our experienced team of scientists is always available to answer questions and provide guidance on experimental design and troubleshooting.

Whether you are a researcher in academia or industry, a healthcare professional, or a diagnostic laboratory expert, NZYTech has the products and expertise to support your work. We invite you to explore our 2023 catalogue of molecular diagnostics and discover how our innovative solutions can help you advance your scientific or testing goals.



#### Visit our Online Store

Create an account at [www.nzytech.com](http://www.nzytech.com) and benefit from a seamless purchasing experience with full access to Product Manuals (IFU), Certificates of Analysis and MSDS



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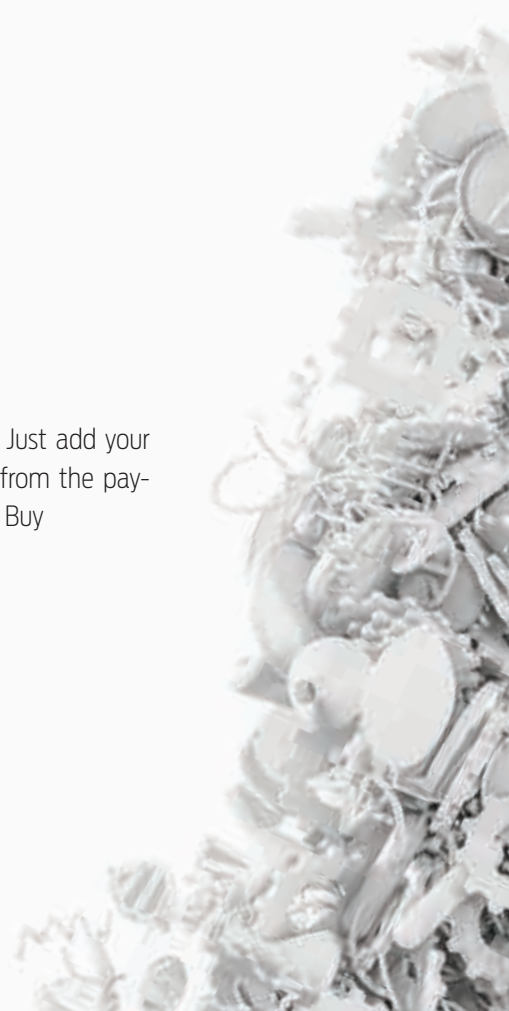
NZYWallet is a prepaid account that gives the flexibility you need to focus on your research. With NZYWallet you can buy any product from our online store, check your up-to-date balance and track your latest orders.

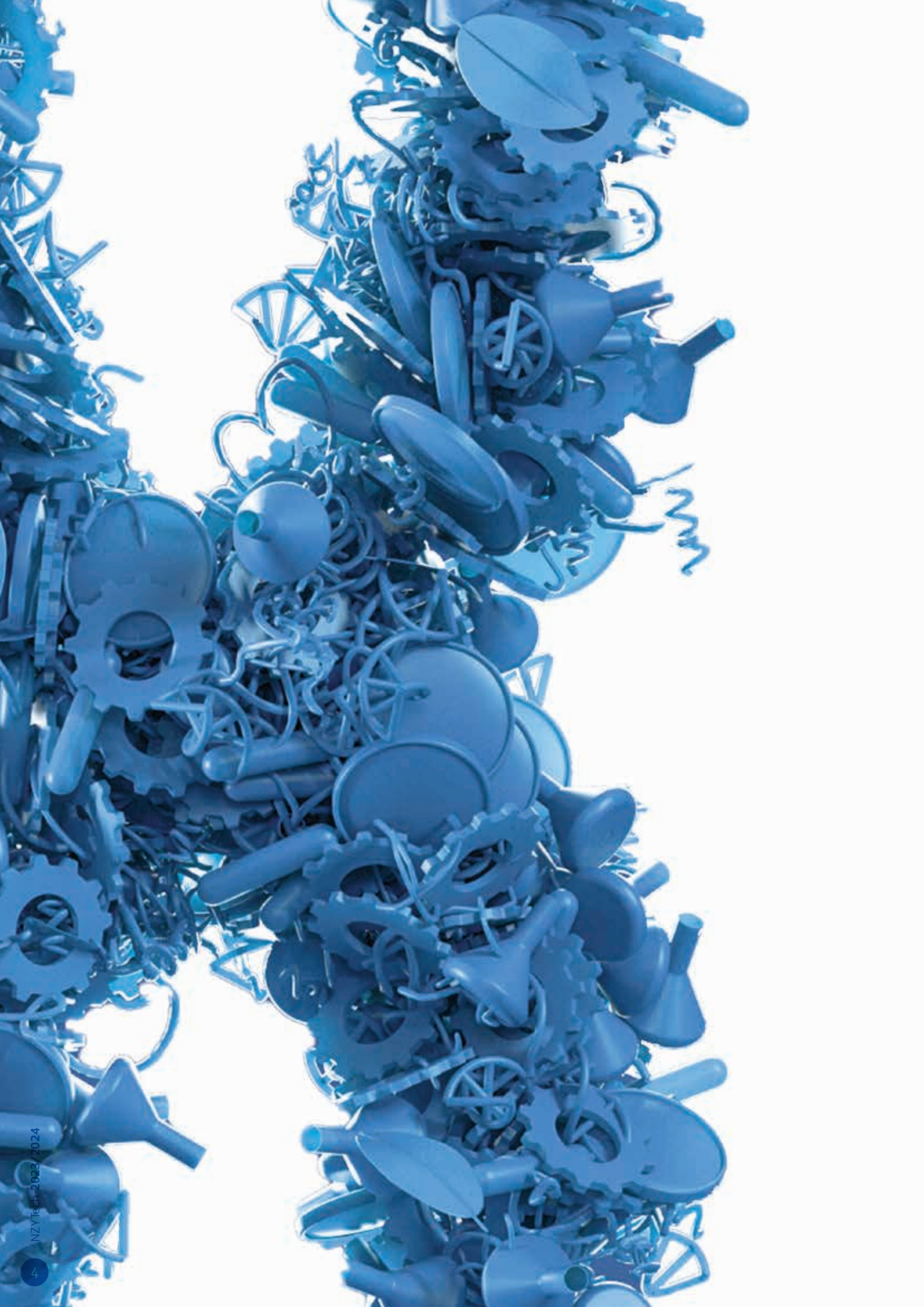


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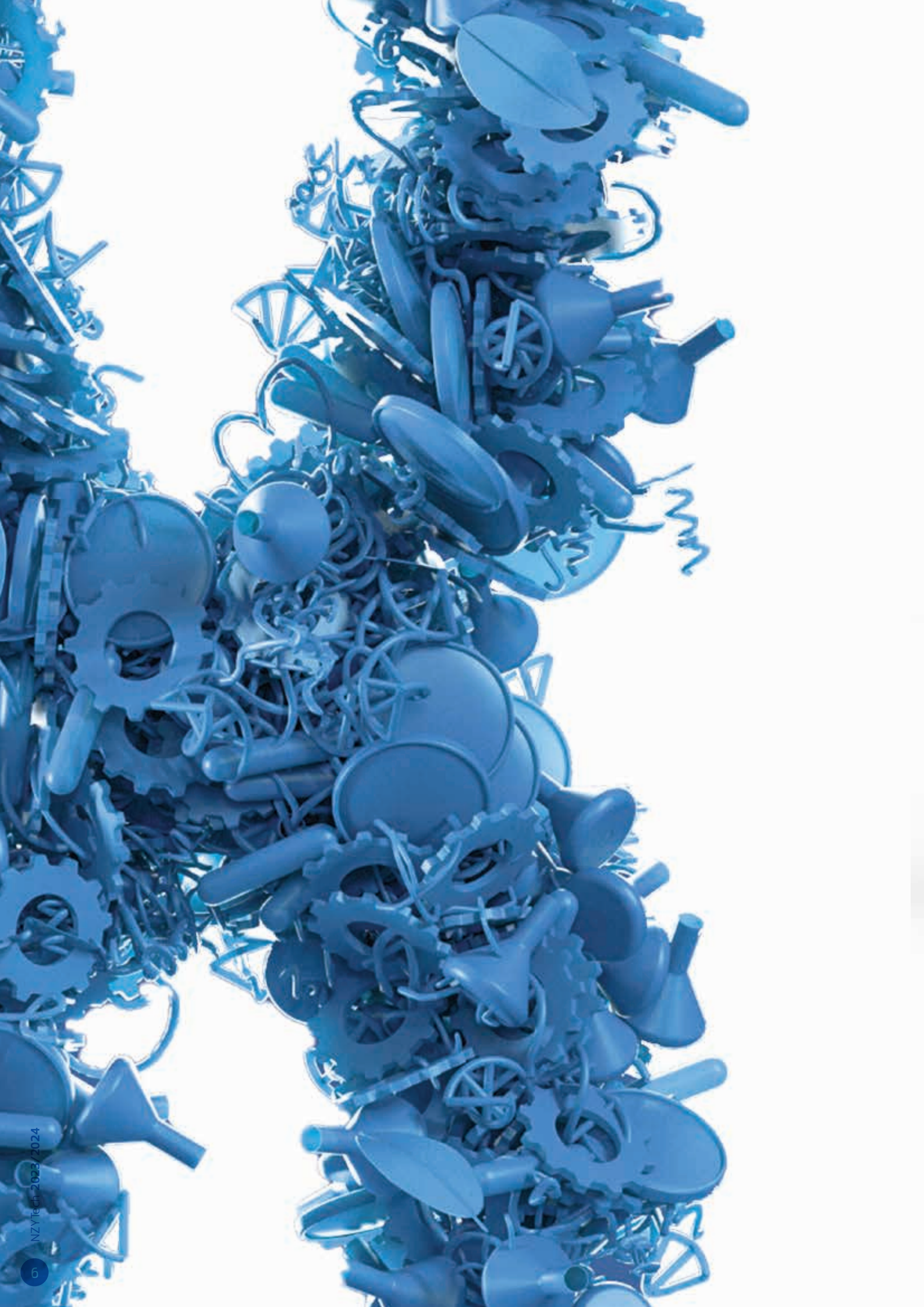
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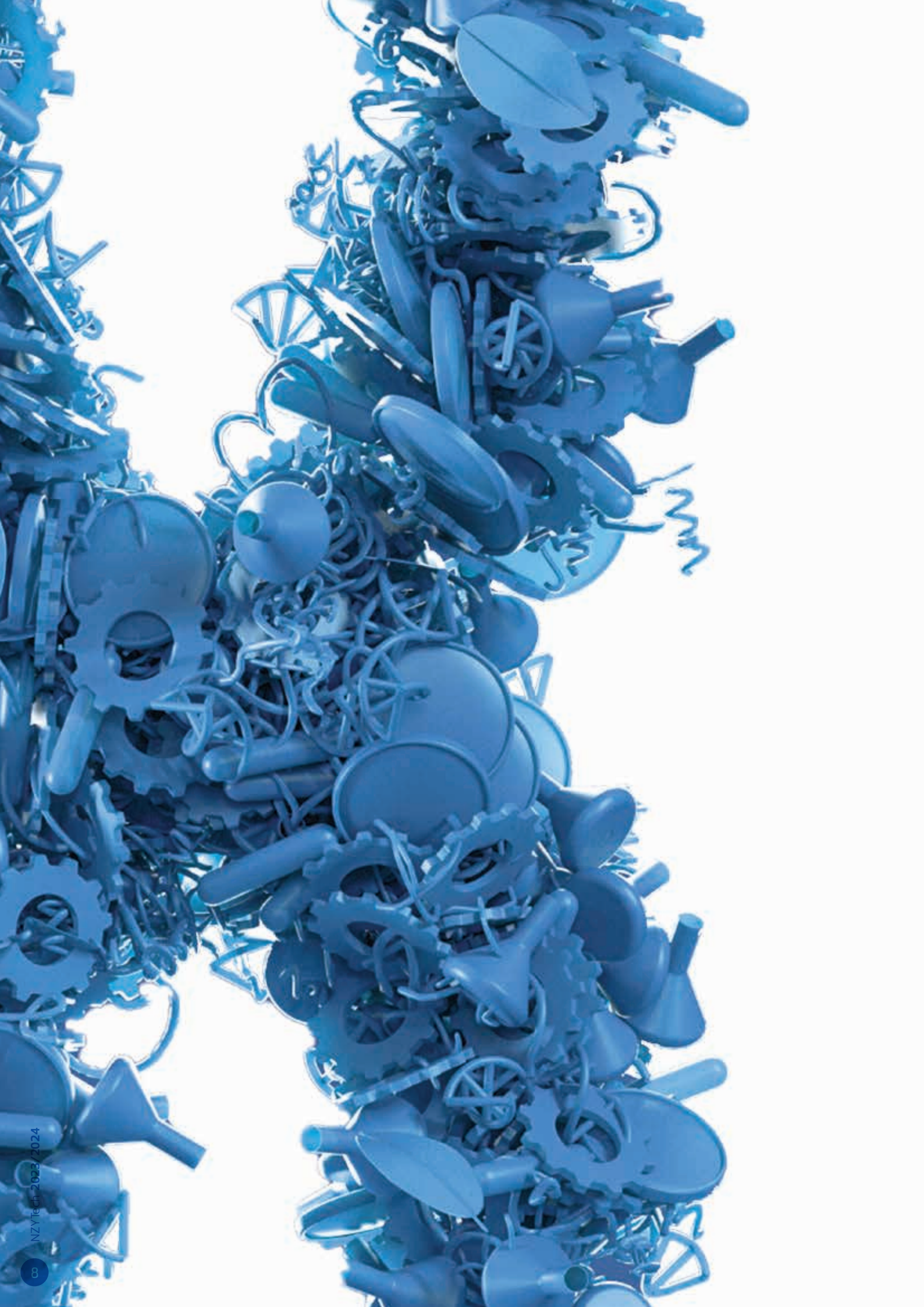


# OVERVIEW

## REAL-TIME PCR KIT FORMAT



- Robust qPCR/RT-qPCR master mixes
- Qualitative PCR
- Detection Method: Fluorescent probe detection
- Internal Extraction Control (IEC) or Endogenous Controls (EC) included
- Highly specific detection profile
- High priming efficiency





# MOLECULAR DIAGNOSTICS KITS FEATURES

## 🔗 A large and diverse portfolio of more than 170 molecular diagnostic products organized in:

- Nucleic Acids Extraction kits, qPCR and RT-qPCR IVD and Non-IVD kits, IVD Molecular Reagents.

## 🔗 Most qPCR and RT-qPCR kits shipped at Room Temperature

- Enzyme Master Mixers and Primers/Probe Mixes of most kits are provided in the lyophilized form to afford room-temperature shipping.

## 🔗 In stock and ready to ship!

- All products in this catalogue are in stock meaning that NZYTech can ship them quickly to you.

## 🔗 Molecular Diagnostics kits at a competitive price

- Sign up at [www.nzytech.com](http://www.nzytech.com) and check our prices.

## 🔗 Universal kits

- All kits are designed to work perfectly with the different real-time PCR instruments available on the market.

## 🔗 NZYTech kits function with highly optimized master mixes

- All kits are provided with high-quality, robust, master mixes made with highly balanced formulations of en-zymes, buffers, stabilizers and preservatives.

## 🔗 NZYTech kits allow you to have complete control of your determinations.

- Most kits contain DNA or RNA Internal Extraction Control (IEC) that give insight into the success or failure of the nucleic acids extraction process while indicating the presence of PCR inhibitors.

## 🔗 Endogenous controls are available to check the correct sampling and extraction process

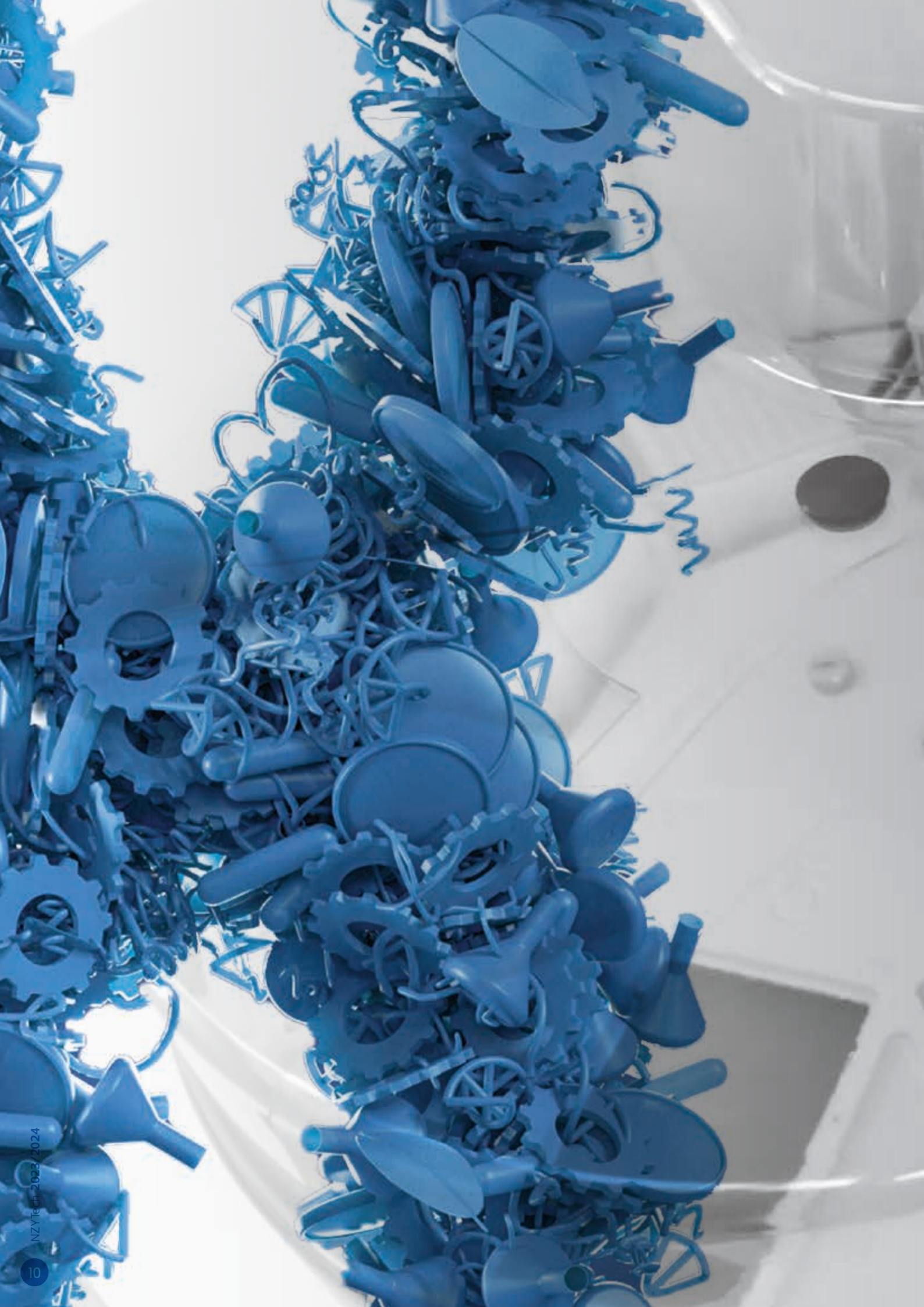
- NZYTech provides six different endogenous control kits, provided separately, that allow checking the correctness of the sampling process. IVD kits include endogenous primer and probe mix to validate the efficacy of the extraction process as well as the absence of PCR inhibitors potentially present in the human biological samples.

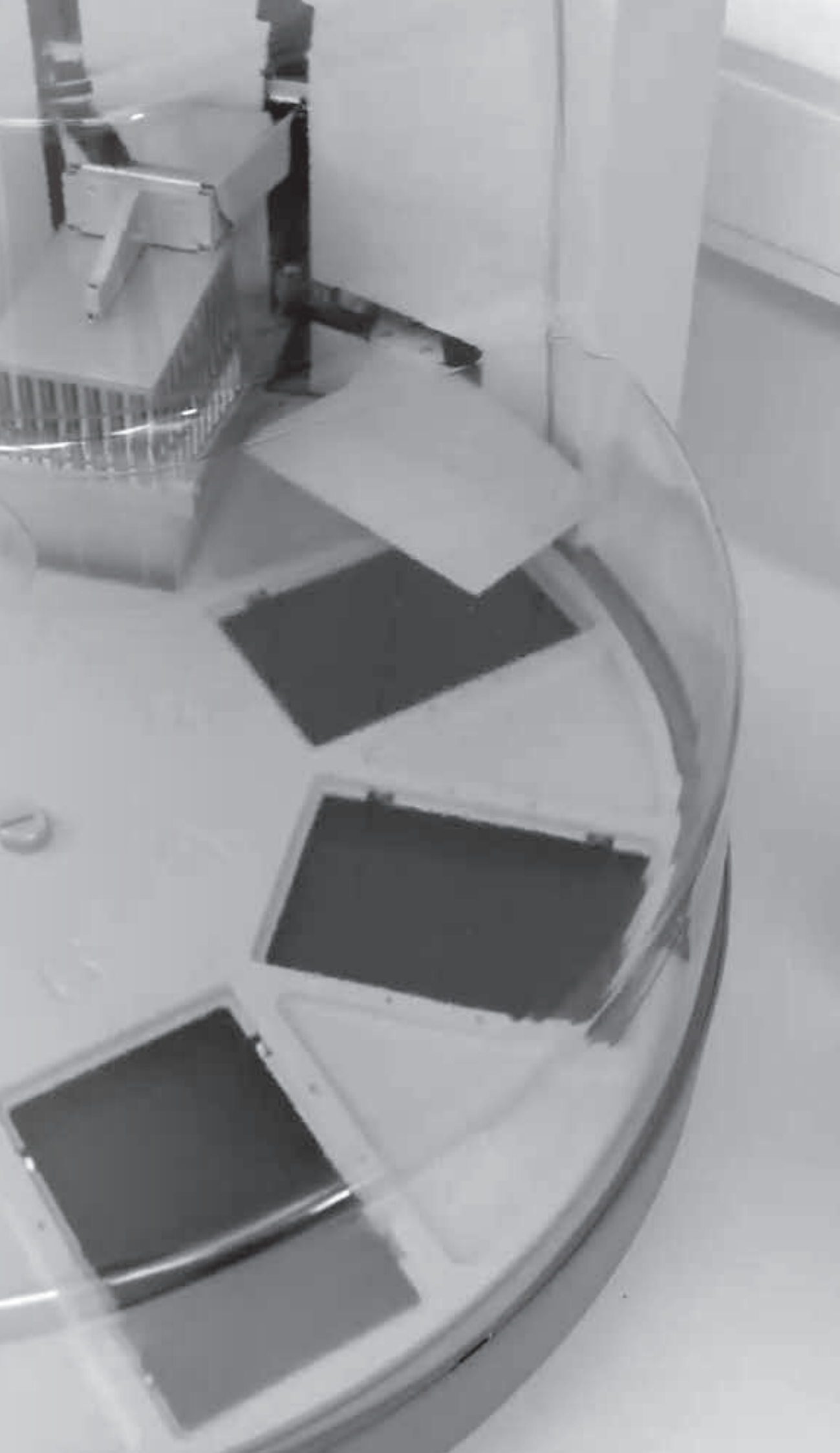
## 🔗 New kits on demand

- In case you cannot find the kit you require, please contact us to discuss alternatives.

## 🔗 Portfolio Update / Product Discontinuations

- Organisms evolve and so does our portfolio. Our qPCR kits are periodically revisited to assure that we continue to deliver highly specific kits.





**Extraction**

# AUTOMATED

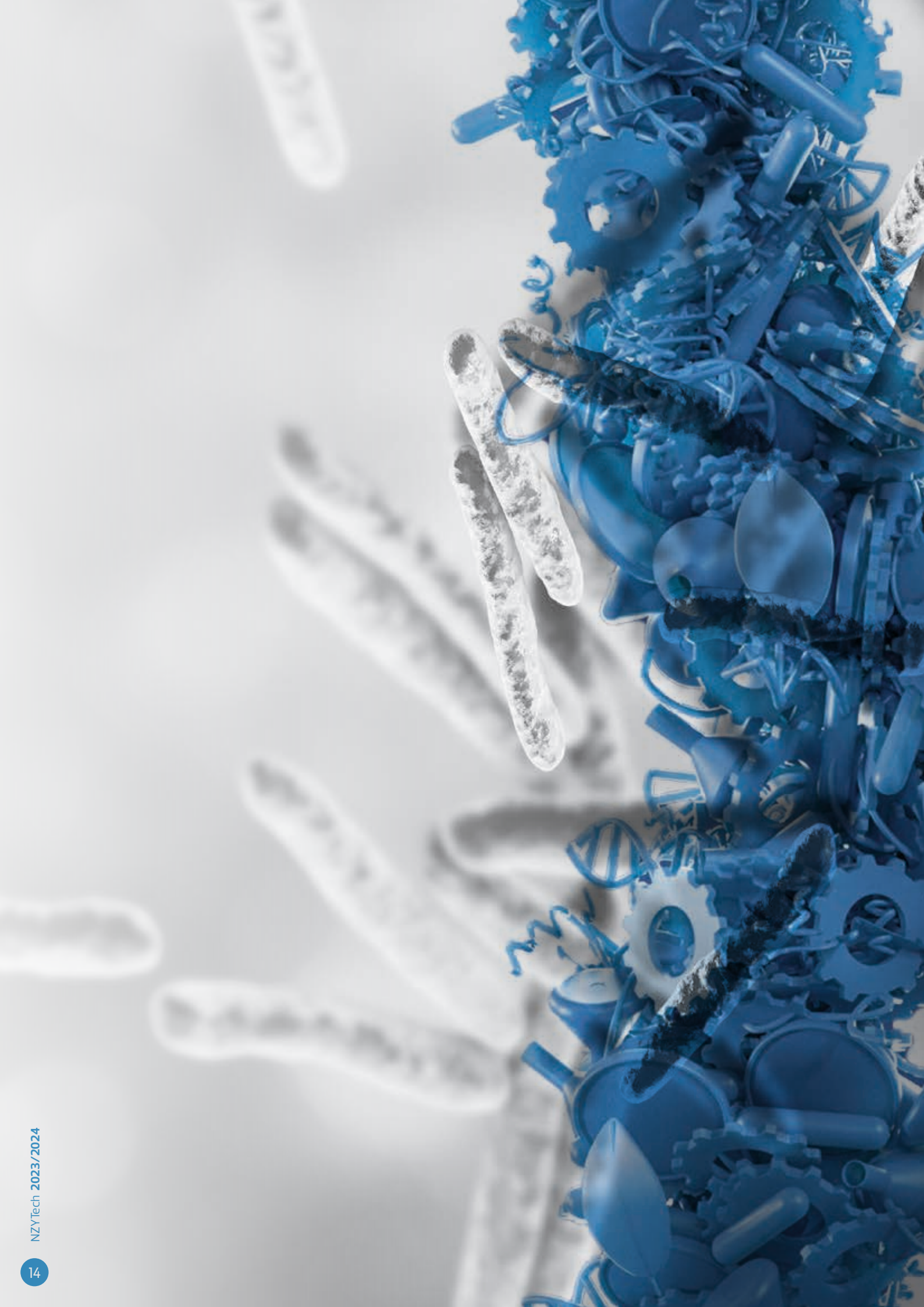
Reliable and automated DNA and RNA extraction is essential for accurate and reliable qPCR testing. Our 2023/2024 molecular diagnostics catalogue includes automated nucleic acid extraction kits based on magnetic beads technology. These kits are optimized for efficient and reliable extraction of high-quality nucleic acids from a wide range of sample types, including blood, tissue, saliva, and environmental samples. Our automated extraction kits utilize magnetic beads technology, enabling high-throughput sample processing and reducing the risk of contamination. Magnetic beads are highly efficient at capturing and retaining nucleic acids, resulting in highly pure DNA or RNA. This is particularly important in the context of molecular diagnostics, where accurate and reliable results are critical. Magnetic bead-based nucleic acid isolation can be easily automated, allowing for high-throughput processing of samples. Automation of nucleic acid isolation can reduce the risk of contamination, ensuring high-quality and reproducible results. With easy-to-use protocols and high reproducibility, our extraction kits offer efficient nucleic acid isolation for downstream applications, including qPCR and RT-qPCR. With our specialized products and experienced scientists, we strive to provide innovative solutions that support the advancement of molecular diagnostics and improve patient outcomes.

	Catalogue number	Product name	Number of preparations
CE-IVD	<b>MD04881</b>	NZY Mag Viral RNA/DNA Isolation Kit, IVD	200 preps
CE-IVD	<b>MD04882</b>	NZY Mag Viral RNA/DNA Isolation Kit, IVD	2000 preps
	<b>MD04961</b>	NZY Mag Viral RNA/DNA Isolation Kit, RUO	200 preps
	<b>MD04962</b>	NZY Mag Viral RNA/DNA Isolation Kit, RUO	2000 preps
CE-IVD	<b>MD06661</b>	NZY Mag Bacterial & Viral RNA/DNA Isolation Kit, IVD	200 preps
CE-IVD	<b>MD06662</b>	NZY Mag Bacterial & Viral RNA/DNA Isolation Kit, IVD	2000 preps
	<b>MD06671</b>	NZY Mag Bacterial & Viral RNA/DNA Isolation Kit, RUO	200 preps
	<b>MD06672</b>	NZY Mag Bacterial & Viral RNA/DNA Isolation Kit, RUO	2000 preps

# BENCHTOP

Our benchtop extraction kits utilize the power of silica-based technology to provide you with the most efficient and reliable nucleic acid isolation available. Silica-based methods have been proven to be one of the most effective methods for extracting high-quality DNA and RNA from a variety of sample types. The advantages of silica-based technology for nucleic acid extraction are numerous. First, it allows for rapid binding and efficient elution of nucleic acids from a variety of sample types, including blood, tissue and cells. Additionally, our silica-based extraction kits offer exceptional purity and yield of nucleic acids, ensuring reliable downstream analysis. Our kits are designed to be user-friendly, with clear and easy-to-follow protocols that can be easily adapted to a variety of laboratory workflows. Overall, our benchtop silica-based DNA and RNA extraction kits offer unparalleled performance and efficiency for your molecular diagnostic needs. Trust NZYTech to provide you with the latest and greatest in cutting-edge molecular diagnostic tools and technologies.

Catalogue number	Product name	Number of preparations
<a href="#">MB13502</a>	NZY Tissue gDNA Isolation kit	50 preps
<a href="#">MB13503</a>	NZY Tissue gDNA Isolation kit	200 preps
<a href="#">MB17701</a>	NZY Plant/Fungi gDNA Isolation kit	50 preps
<a href="#">MB17702</a>	NZY Plant/Fungi gDNA Isolation kit	4x 50 preps
<a href="#">MB21802</a>	NZY Soil gDNA Isolation kit	50 preps
<a href="#">MB21702</a>	NZY Microbial gDNA Isolation kit	50 preps
<a href="#">MB40701</a>	NZY Viral RNA Isolation kit	50 preps
<a href="#">MB13402</a>	NZY Total RNA Isolation kit	50 preps





Human

# HUMAN

The COVID-19 pandemic has profoundly impacted global health and highlighted the importance of accurate and timely diagnostic tools. Polymerase chain reaction (PCR) has emerged as a key technology in the fight against COVID-19, enabling rapid and precise detection of the SARS-CoV-2 virus that causes COVID-19. PCR has played a critical role in widespread testing, surveillance, and the development of vaccines and therapies. At NZYTech, we are committed to providing innovative solutions that support the fight against infectious diseases. These qPCR kits are optimized to detect a wide range of viral, bacterial, and fungal pathogens that can cause infectious diseases in humans, including respiratory infections, sexually transmitted infections, and gastrointestinal infections. Our qPCR kits deliver accurate and reliable results, providing rapid and precise diagnosis to support patient care. NZYTech's qPCR kits offer high sensitivity and specificity, enabling early detection and monitoring of infectious diseases. Our human pathogen qPCR kits are suitable for use in a variety of settings, including clinical diagnostic laboratories, research institutions, and hospitals. They are compatible with a wide range of sample types, including blood, sputum, urine, and swabs, and can be used with a variety of qPCR instrumentation. Our team of experienced scientists is available to provide technical support and guidance to help researchers and healthcare professionals achieve their scientific and clinical objectives.



## RESPIRATORY

Rapid and accurate diagnosis of respiratory infections is critical to enabling early intervention and treatment. Early detection can help prevent the spread of infections and reduce the risk of complications. In this section, you will find a comprehensive range of molecular diagnostic assays for the detection of various respiratory pathogens, including SARS-CoV-2, influenza, respiratory syncytial virus (RSV), different mycobacterium, and many others. Our assays are designed to work with a variety of sample types, including nasopharyngeal swabs, saliva, and sputum, and can be performed on a variety of PCR platforms. In addition, the tests have been extensively validated and are highly sensitive and specific, enabling accurate and reliable detection of different respiratory pathogens.

	Catalogue number	Product name	Number of reactions
CE-IVD	<b>MD04931</b>	MRSA Multiplex Real-time PCR Kit, IVD	96 reactions
CE-IVD	<b>MD03201</b>	SARS-CoV-2 One-Step RT-PCR Kit, IVD	96 reactions
CE-IVD	<b>MD04831</b>	SARS-CoV-2 One-Step RT-PCR Kit, RdRp and N Genes, IVD	96 reactions
CE-IVD	<b>MD04832</b>	SARS-CoV-2 One-Step RT-PCR Kit, RdRp and N Genes, IVD	4x 96 reactions
CE-IVD	<b>MD04871</b>	SARS-CoV-2 One-Step RT-PCR Kit II, RdRp and N Genes, IVD	96 reactions
CE-IVD	<b>MD04872</b>	SARS-CoV-2 One-Step RT-PCR Kit II, RdRp and N Genes, IVD	4x 96 reactions
CE-IVD	<b>MD04911</b>	SARS-CoV-2 One-Step RT-qPCR Kit III, 5 Targets, IVD	96 reactions
CE-IVD	<b>MD04912</b>	SARS-CoV-2 One-Step RT-qPCR Kit III, 5 Targets, IVD	4x 96 reactions
CE-IVD	<b>MD04851</b>	COVID-19 & Flu A/B Multiplex One-Step RT-qPCR Kit, IVD	96 reactions
CE-IVD	<b>MD04901</b>	COVID-19, Flu A/B, RSV Multiplex One-Step RT-qPCR Kit, IVD	96 reactions
CE-IVD	<b>MD04902</b>	COVID-19, Flu A/B, RSV Multiplex One-Step RT-qPCR Kit, IVD	4x 96 reactions
	<b>MD05131</b>	Acinetobacter baumannii qPCR Kit	100 reactions
	<b>MD05571</b>	Enterovirus RT-qPCR Kit	100 reactions
	<b>MD05621</b>	Human influenza A virus H1 RT-qPCR Kit	100 reactions
	<b>MD05611</b>	Human rhinovirus RT-qPCR Kit	100 reactions
	<b>MD06641</b>	Influenza A virus H5N1 RT-qPCR Kit	100 reactions
	<b>MD05281</b>	Legionella pneumophila qPCR Kit	100 reactions
	<b>MD06651</b>	Leptospira (16S rDNA + LipL32) qPCR Kit	100 reactions
	<b>MD05881</b>	Leptospira (LipL32) qPCR Kit	100 reactions
	<b>MD06271</b>	Leptospira spp. (16S rDNA) qPCR Kit	100 reactions
	<b>MD06311</b>	MERS-CoV RT-qPCR Kit	100 reactions
	<b>MD05071</b>	Mycobacterium spp. qPCR Kit	100 reactions
	<b>MD05061</b>	Mycobacterium tuberculosis complex qPCR Kit	100 reactions
	<b>MD05341</b>	Mycobacterium tuberculosis qPCR Kit	100 reactions
	<b>MD05351</b>	Mycoplasma pneumoniae qPCR Kit	100 reactions
	<b>MD05511</b>	Mycoplasma spp. qPCR Kit	100 reactions
	<b>MD05901</b>	Pseudomonas aeruginosa qPCR Kit	100 reactions
	<b>MD05641</b>	Respiratory Syncytial virus RT-qPCR Kit	100 reactions
	<b>MD03191</b>	SARS-CoV-2 One-Step RT-PCR Kit, RUO	100 reactions
	<b>MD05441</b>	Staphylococcus aureus qPCR Kit	100 reactions
	<b>MD05541</b>	Streptococcus pneumoniae qPCR Kit	100 reactions

## SEXUAL HEALTH

Sexually transmitted diseases (STDs) are a major public health concern, affecting millions of people worldwide. These infections can cause serious health problems if left untreated and can also be transmitted to sexual partners. Early diagnosis and treatment are critical to preventing the spread of STDs and minimizing their health consequences. In this section, you will find a comprehensive range of molecular diagnostic assays for the detection of various sexually transmitted pathogens, including *Candida albicans*, *Chlamydia trachomatis*, *Neisseria gonorrhoeae*, *Mycoplasma genitalium*, and many others. Our assays are designed to work with a variety of sample types, including urine, vaginal swabs, and cervical swabs, and can be performed on a variety of PCR platforms. NZYTech kits have been extensively validated and are highly sensitive and specific, enabling accurate and reliable detection of sexually transmitted pathogens.

	Catalogue number	Product name	Number of reactions
CE-IVD	<b>MD04941</b>	Group B Streptococcus Real-time PCR Kit, IVD	96 reactions
CE-IVD	<b>MD05851</b>	Candida albicans qPCR Kit	96 reactions
	<b>MD04891</b>	Candida albicans Real-time PCR Kit, IVD	100 reactions
	<b>MD05861</b>	Chlamydia trachomatis qPCR Kit	100 reactions
	<b>MD05271</b>	Herpes Simplex virus 1 & 2 qPCR Kit	100 reactions
	<b>MD05431</b>	Herpes Simplex virus 1 qPCR Kit	100 reactions
	<b>MD05491</b>	Herpes Simplex virus 2 qPCR Kit	100 reactions
	<b>MD05391</b>	Mycoplasma genitalium qPCR Kit	100 reactions
	<b>MD05511</b>	Mycoplasma spp. qPCR Kit	100 reactions
	<b>MD05891</b>	Neisseria gonorrhoeae qPCR Kit	100 reactions
	<b>MD05911</b>	Trichomonas vaginalis qPCR Kit	100 reactions

## GASTROINTESTINAL INFECTIONS

Gastrointestinal infections are a major global health concern, affecting millions of people every year. These infections can be caused by a wide range of pathogens, including bacteria such as Salmonella and *Escherichia coli*, viruses such as Rotavirus, and parasites such as Giardia and Cryptosporidium. Early and accurate diagnosis of these pathogens is crucial to the effective treatment and management of these infections. In this section, you will find a comprehensive range of molecular diagnostic assays for the detection of various gastrointestinal pathogens. Our assays are designed to work with a variety of sample types, including stool and rectal swabs, and can be performed on a variety of PCR platforms. These NZYTech tests have been extensively validated and are highly sensitive and specific, enabling accurate and reliable detection of gastrointestinal pathogens.

Catalogue number	Product name	Number of reactions
MD06111	Clostridium perfringens qPCR Kit	100 reactions
MD05381	Cryptosporidium parvum qPCR Kit	100 reactions
MD05211	Entamoeba spp. qPCR Kit	100 reactions
MD05001	Enterococcus faecalis qPCR Kit	100 reactions
MD06171	Escherichia coli Typing eae & ehxA (EHEC, EPEC) qPCR Kit	100 reactions
MD06181	Escherichia coli Typing eae (EHEC or EPEC) qPCR Kit	100 reactions
MD06191	Escherichia coli Typing ehxA (EHEC) qPCR Kit	100 reactions
MD06201	Escherichia coli Typing stx1 & stx2 (STEC) qPCR Kit	100 reactions
MD05241	Giardia lamblia (A-B) qPCR Kit	100 reactions
MD05251	Giardia lamblia (A-F) qPCR Kit	100 reactions
MD06511	Rotavirus RT-qPCR Kit	100 reactions
MD06521	Salmonella enterica qPCR Kit	100 reactions

## ANTIBIOTIC RESISTANCE & SEPSIS

The continuous emergence and spread of bloodborne diseases, antibiotic-resistant bacteria, and sepsis pose significant challenges to healthcare systems worldwide. Timely and accurate diagnostic tools are critical in the management and treatment of these diseases, and NZYTech's 2023/2024 catalogue of molecular diagnostics offers some cutting-edge solutions designed to meet these challenges. Our innovative tools enable healthcare professionals to make informed decisions, initiate targeted treatment plans, and help prevent the spread of these life-threatening infections. Bloodborne diseases, including viral hepatitis, are a major public health concern. In addition, the growing threat of antibiotic-resistant bacteria, such as methicillin-resistant *Staphylococcus aureus* (MRSA), demands a heightened level of vigilance and accurate diagnostics. NZYTech's 2023/2024 catalogue includes advanced molecular assays for the rapid identification of resistant strains, enabling healthcare professionals to initiate targeted treatment plans and control

Catalogue number	Product name	Number of reactions
<b>MD05461</b>	Class A Beta-lactamase (blaGES) resistance qPCR Kit	100 reactions
<b>MD05471</b>	Class B Beta-lactamase (blaIMP) resistance qPCR Kit	100 reactions
<b>MD05481</b>	Class B Beta-lactamase (blaVIM) resistance qPCR Kit	100 reactions
CE-IVD <b>MD04931</b>	MRSA Multiplex Real-time PCR Kit, IVD	96 reactions

## BLOODBORNE

Catalogue number	Product name	Number of reactions
<b>MD05031</b>	Hepatitis B virus qPCR Kit	100 reactions

## IMMUNOSUPPRESSED & MENINGITIS

Immunodeficiency disorders and meningitis diseases are serious health concerns that can have significant impacts on patient health and well-being. These diseases can be caused by a variety of pathogens, including bacteria, viruses, and fungi. The ability to accurately diagnose and monitor these conditions is critical for immunosuppressed patients and those suffering from meningitis. Early detection can help prevent severe complications and improve the patient's quality of life. The following section presents a comprehensive overview of our cutting-edge molecular diagnostic products that aid in the identification and management of these challenging diseases, including human herpes simplex virus, *Leptospira*, and Varicella-Zoster virus. Our assays are designed to work with a variety of sample types, including blood, cerebrospinal fluid, and saliva, and can be performed on a variety of PCR platforms.

Catalogue number	Product name	Number of reactions
MD05451	Cytomegalovirus (Human Herpesvirus 5) qPCR Kit	100 reactions
MD05131	Acinetobacter baumannii qPCR Kit	100 reactions
MD05011	Epstein Barr virus (HHV4) qPCR Kit	100 reactions
MD05271	Herpes Simplex virus 1 & 2 qPCR Kit	100 reactions
MD05431	Herpes Simplex virus 1 qPCR Kit	100 reactions
MD05491	Herpes Simplex virus 2 qPCR Kit	100 reactions
MD06651	Leptospira (16S rDNA + LipL32) qPCR Kit	100 reactions
MD05881	Leptospira (LipL32) qPCR Kit	100 reactions
MD06271	Leptospira spp. (16S rDNA) qPCR Kit	100 reactions
MD05521	Staphylococcus epidermidis qPCR Kit	100 reactions
MD05261	Varicella-Zoster virus qPCR Kit	100 reactions

## VECTOR-BORNE & TROPICAL

In a globalized world, vector-borne and tropical diseases are major global health concerns, affecting millions of people every year. These diseases can be caused by a wide range of pathogens, including bacteria, viruses, and parasites. Climate changes have also led to the appearance of these diseases in regions of the globe where they were previously unknown. Early and accurate diagnosis of these pathogens is crucial to the effective treatment and management of these diseases. In this section, you will find a comprehensive range of molecular diagnostic assays for the detection of various vector-borne and tropical pathogens, including monkeypox virus, dengue fever, Zika virus, and many others. Our assays are designed to work with a variety of sample types, including blood, urine, and saliva, and can be performed on a variety of PCR platforms. NZYTech qPCR and RT-qPCR test kits have been extensively validated and are highly sensitive and specific, enabling accurate and reliable detection of vector-borne and tropical pathogens.

Catalogue number	Product name	Number of reactions
<b>MD05711</b>	Chikungunya virus RT-qPCR Kit	100 reactions
<b>MD05171</b>	Coxiella burnetii qPCR Kit	100 reactions
<b>MD05561</b>	Crimean Congo Haemorrhagic Fever virus RT-qPCR Kit	100 reactions
<b>MD05701</b>	Dengue virus RT-qPCR Kit	100 reactions
<b>MD05221</b>	Francisella tularensis qPCR Kit	100 reactions
<b>MD05721</b>	Japanese encephalitis virus RT-qPCR Kit	100 reactions
<b>MD05871</b>	Leishmania spp. qPCR Kit	100 reactions
<b>MD05291</b>	Lyme Disease qPCR Kit	100 reactions
<b>MD04951</b>	Monkeypox virus Real-time PCR Kit, RUO	96 reactions
<b>MD05671</b>	Rift Valley Fever virus RT-qPCR Kit	100 reactions
<b>MD05731</b>	Zika virus RT-qPCR Kit	100 reactions

## OTHERS

The early diagnosis of infections caused by a wide range of human pathogens is crucial for timely and appropriate treatment, leading to improved patient outcomes and overall public health. NZYTech's 2023/2024 catalogue of molecular diagnostics provides cutting-edge tools and assays for the accurate detection and identification of numerous pathogens, including *Bacillus anthracis*, hepatitis viruses, *Pasteurella*, *Toxoplasma gondii*, *Brucella*, *Bartonella*, and many others. In this section, we present an overview of our molecular diagnostic products specifically designed for the detection and identification of these diverse pathogens. Our advanced tools enable healthcare professionals to swiftly and accurately diagnose infections, initiate targeted treatment plans, and monitor disease progression, ultimately contributing to improved patient care and health outcomes.

Catalogue number	Product name	Number of reactions
MD04981	Acanthamoeba spp. qPCR Kit	100 reactions
MD05951	Aerococcus viridans qPCR Kit	100 reactions
MD06631	Bacillus anthracis qPCR Kit	100 reactions
MD05151	Bartonella henselae qPCR Kit	100 reactions
MD05971	Bartonella spp. qPCR Kit	100 reactions
MD05401	Brucella spp. qPCR Kit	100 reactions
MD05581	Hepatitis A virus RT-qPCR Kit	100 reactions
MD05591	Hepatitis E virus RT-qPCR Kit	100 reactions
MD06381	Nocardia spp. qPCR Kit	100 reactions
MD06401	Pasteurella multocida qPCR Kit	100 reactions
MD06411	Pasteurella multocida toxA qPCR Kit	100 reactions
MD05331	Simian virus 40 qPCR Kit	100 reactions
MD05841	Streptococcus agalactiae (Group B) qPCR Kit	100 reactions
MD05111	Toxoplasma gondii qPCR Kit	100 reactions

## ENDOGENOUS CONTROLS

The reliability and accuracy of molecular diagnostics depend heavily on the proper collection and handling of biological samples. To ensure the utmost confidence in test results, NZYTech's 2023/2024 catalogue of molecular diagnostics offers a dedicated kit for confirming the presence of human DNA in collected samples. This innovative product is designed to provide an additional layer of quality assurance in diagnostic workflows, guaranteeing that samples are correctly collected and suitable for downstream analysis. The human endogenous control kit utilizes a highly sensitive and specific molecular assay designed to target a conserved region of human genomic DNA. This straightforward and rapid test is compatible with a wide range of sample types, including blood, saliva, and tissue specimens. Easy to integrate into existing workflows, the kit provides a quick and reliable method to confirm the presence of human DNA in collected samples.

Catalogue number	Product name	Number of reactions
MD05781	Endogenous Control A Real-Time PCR Kit	48 reactions







**Vet, Food & Pharma**

# VET, FOOD & PHARMA

NZYTEch provides a vast range of qPCR kits for the veterinary, food, and pharmaceutical industries. At NZYTEch we understand the unique challenges faced by these industries, and our qPCR kits are specifically designed to meet those needs. Our kits offer exceptional sensitivity and specificity, making them ideal for a wide range of applications, including pathogen detection and quality control.

NZYTEch provides a vast range of qPCR kits for the veterinary, food and pharmaceutical industries. Our products allow the improvement of health and well-being of animals, and ensure the safety and quality of consumer goods.

## VETERINARY & AGRICULTURE

We are pleased to announce that our 2023/2024 catalogue includes an updated category of qPCR kits designed for veterinary and agricultural applications. These NZYTech kits are optimized to detect a wide range of veterinary and agricultural pathogens that can affect the health and productivity of animals and crops. Developed using the latest advancements in molecular biology, our qPCR kits deliver accurate and reliable results using various sample types, including blood, faeces, tissues and environmental samples, enabling early detection and monitoring of infectious diseases. In veterinary medicine, qPCR testing plays a critical role in the diagnosis and surveillance of infectious diseases in animals. Early detection of infectious diseases can enable rapid and appropriate treatment, helping to prevent disease spread and improve animal welfare. In addition, qPCR testing can be used to monitor the effectiveness of disease control measures and track the emergence of new pathogens. In agriculture, qPCR testing has become an important tool for monitoring the health and productivity of crops. By detecting and quantifying pathogen DNA or RNA, qPCR testing can identify diseases in crops before symptoms become apparent, allowing for early intervention to prevent yield loss and reduce the use of pesticides. Backed by our team of experienced scientists, NZYTech's qPCR kits support the health and productivity of animals and crops, providing innovative solutions for timely and accurate diagnosis.

Catalogue number	Product name	Number of reactions
MD05941	Actinobacillus pleuropneumoniae qPCR Kit	100 reactions
MD05141	Aeromonas salmonicida qPCR Kit	100 reactions
MD05121	African Swine Fever virus qPCR Kit	100 reactions
MD05961	Ascosphaera apis qPCR Kit	100 reactions
MD05661	Avian Infectious Bronchitis virus RT-qPCR Kit	100 reactions
MD05741	Avian orthoreovirus RT-qPCR Kit	100 reactions
MD05151	Bartonella henselae qPCR Kit	100 reactions
MD05971	Bartonella spp. qPCR Kit	100 reactions
MD05981	Batrachochytrium dendrobatidis qPCR Kit	100 reactions
MD05991	Bovine coronavirus RT-qPCR Kit	100 reactions
MD05161	Bovine herpesvirus 1 qPCR Kit	100 reactions
MD05651	Bovine Leukemia virus RT-qPCR Kit	100 reactions
MD06001	Bovine nebovirus RT-qPCR Kit	100 reactions
MD06011	Bovine norovirus RT-qPCR Kit	100 reactions
MD06021	Bovine Parainfluenza virus 3 RT-qPCR Kit	100 reactions

## VETERINARY & AGRICULTURE (CONT.)

Catalogue number	Product name	Number of reactions
MD05371	Bovine parvovirus qPCR Kit	100 reactions
MD06031	Bovine Respiratory Syncytial virus RT-qPCR Kit	100 reactions
MD06041	Bovine torovirus RT-qPCR Kit	100 reactions
MD06051	Brachyspira hyodysenteriae & Brachyspira pilosicoli qPCR Kit	100 reactions
MD06061	Brachyspira hyodysenteriae qPCR Kit	100 reactions
MD06071	Brachyspira pilosicoli qPCR Kit	100 reactions
MD05401	Brucella spp. qPCR Kit	100 reactions
MD05551	Campylobacter fetus qPCR Kit	100 reactions
MD05751	Canine Distemper virus RT-qPCR Kit	100 reactions
MD05181	Canine Herpes virus qPCR Kit	100 reactions
MD06091	Caprine Arthritis Encephalitis virus RT-qPCR Kit	100 reactions
MD05361	Chlamydomydia psittaci qPCR Kit	100 reactions
MD06101	Classical Swine Fever virus RT-qPCR Kit	100 reactions
MD06121	Corynebacterium pseudotuberculosis qPCR Kit	100 reactions
MD05381	Cryptosporidium parvum qPCR Kit	100 reactions
MD06221	Dichelobacter nodosus & Fusobacter necrophorum qPCR Kit	100 reactions
MD06131	Echinococcus multilocularis qPCR Kit	100 reactions
MD05191	Ehrlichia canis qPCR Kit	100 reactions
MD06141	Encephalomyocarditis virus RT-qPCR Kit	100 reactions
MD06151	Enterococcus spp. qPCR Kit	100 reactions
MD05571	Enterovirus RT-qPCR Kit	100 reactions
MD05021	Equid herpesvirus 1 qPCR Kit	100 reactions
MD05201	Equid herpesvirus 4 qPCR Kit	100 reactions
MD05601	Feline coronavirus RT-qPCR Kit	100 reactions
MD05231	Feline herpesvirus qPCR Kit	100 reactions
MD05691	Feline Immunodeficiency virus RT-qPCR Kit	100 reactions
MD05761	Feline Leukemia virus RT-qPCR Kit	100 reactions
MD05221	Francisella tularensis qPCR Kit	100 reactions
MD06231	Glaesserella parasuis qPCR Kit	100 reactions
MD06241	Histomonas meleagridis qPCR Kit	100 reactions

## VETERINARY & AGRICULTURE (CONT.)

Catalogue number	Product name	Number of reactions
MD06251	Histophilus somni qPCR Kit	100 reactions
MD06261	Klebsiella spp. qPCR Kit	100 reactions
MD05871	Leishmania spp. qPCR Kit	100 reactions
MD06281	Lumpy Skin Disease virus qPCR Kit	100 reactions
MD06291	Maedi-Visna virus RT-qPCR Kit	100 reactions
MD06301	Mannheimia haemolytica qPCR Kit	100 reactions
MD06211	Melissococcus plutonius qPCR Kit	100 reactions
MD06311	MERS-CoV RT-qPCR Kit	100 reactions
MD06321	Mycobacterium avium ssp. paratuberculosis qPCR Kit	100 reactions
MD05071	Mycobacterium spp. qPCR Kit	100 reactions
MD06331	Mycoplasma bovis qPCR Kit	100 reactions
MD03181	Mycoplasma gallisepticum & Mycoplasma synoviae Triplex Real-time PCR detection kit, RUO	100 reactions
MD05501	Mycoplasma haemofelis qPCR Kit	100 reactions
MD06341	Mycoplasma hyopneumoniae qPCR Kit	100 reactions
MD06351	Mycoplasma hyorhinis qPCR Kit	100 reactions
MD05511	Mycoplasma spp. qPCR Kit	100 reactions
MD06361	Mycoplasma suis qPCR Kit	100 reactions
MD06371	Neospora caninum qPCR Kit	100 reactions
MD06381	Nocardia spp. qPCR Kit	100 reactions
MD06391	Ornithobacterium rhinotracheale qPCR Kit	100 reactions
MD06401	Pasteurella multocida qPCR Kit	100 reactions
MD06411	Pasteurella multocida toxA qPCR Kit	100 reactions
MD05771	Peste-des-petits-ruminants virus RT-qPCR Kit	100 reactions
MD05301	Photobacterium damsela ssp. piscicida qPCR Kit	100 reactions
MD05411	Porcine circovirus 2 qPCR Kit	100 reactions
MD06421	Porcine circovirus 3 qPCR Kit	100 reactions
MD06431	Porcine cytomegalovirus qPCR Kit	100 reactions
MD06451	Porcine Epidemic Diarrhea virus & Swine Delta coronavirus RT-qPCR Kit	100 reactions
MD06461	Porcine Epidemic Diarrhea virus & Transmissible Gastroenteritis virus RT-qPCR Kit	100 reactions
MD06441	Porcine Epidemic Diarrhea virus RT-qPCR Kit	100 reactions

## VETERINARY & AGRICULTURE (CONT.)

Catalogue number	Product name	Number of reactions
MD06471	Porcine Hemagglutinating Encephalomyelitis virus RT-qPCR Kit	100 reactions
MD05311	Porcine parvovirus qPCR Kit	100 reactions
MD06481	Pseudorabiesvirus qPCR Kit	100 reactions
MD06491	Rabbit Haemorrhagic Disease virus 1 & 2 RT-qPCR Kit	100 reactions
MD05631	Rabies virus RT-qPCR Kit	100 reactions
MD06501	Riemerella anatipestifer qPCR Kit	100 reactions
MD05671	Rift Valley Fever virus RT-qPCR Kit	100 reactions
MD06511	Rotavirus RT-qPCR Kit	100 reactions
MD05681	Spring Viremia of Carp virus RT-qPCR Kit	100 reactions
MD06531	Staphylococcus spp. qPCR Kit	100 reactions
MD05531	Streptococcus equi ssp. zooepidemicus qPCR Kit	100 reactions
MD06541	Streptococcus spp. qPCR Kit	100 reactions
MD06551	Streptococcus suis qPCR Kit	100 reactions
MD06561	Streptococcus uberis qPCR Kit	100 reactions
MD06571	Swine Delta coronavirus RT-qPCR Kit	100 reactions
MD06581	Swine Influenza A RT-qPCR Kit	100 reactions
MD06591	Taylorella equigenitalis qPCR Kit	100 reactions
MD06601	Transmissible Gastroenteritis virus RT-qPCR Kit	100 reactions
MD06611	Trichinella spiralis & Trichinella britovi qPCR Kit	100 reactions
MD06621	Trueperella pyogenes qPCR Kit	100 reactions
MD04841	Veterinary SARS-CoV-2 One-Step RT-qPCR Kit, RUO	100 reactions

## FOOD & WATER SAFETY

Our 2023/2024 catalogue includes a category of qPCR kits designed for food and water analysis. These kits are optimized for the detection of a range of bacterial and viral pathogens that can contaminate food and water, causing foodborne illnesses and waterborne diseases. Our qPCR kits offer high sensitivity and specificity, enabling accurate and reliable detection of target sequences in a range of food and water samples. They are compatible with a variety of sample types, including meat, dairy products, fruits and vegetables, and water sources. Developed using the latest advancements in molecular biology, our food and water analysis qPCR kits deliver rapid and precise results, enabling early detection and monitoring of contaminants. Our team of experienced scientists is available to provide technical support and guidance to help researchers and food safety professionals achieve their scientific and regulatory objectives. With NZYTech's food and water analysis qPCR kits, you can trust in the accuracy and reliability of our products, as well as our team of experienced scientists who are available to provide technical support and guidance to help you achieve your food safety objectives.

Catalogue number	Product name	Number of reactions
MD06081	Campylobacter spp. qPCR Kit	100 reactions
MD06111	Clostridium perfringens qPCR Kit	100 reactions
MD05001	Enterococcus faecalis qPCR Kit	100 reactions
MD06161	Escherichia coli qPCR Kit	100 reactions
MD06171	Escherichia coli Typing eae & ehxA (EHEC, EPEC) qPCR Kit	100 reactions
MD06181	Escherichia coli Typing eae (EHEC or EPEC) qPCR Kit	100 reactions
MD06191	Escherichia coli Typing ehxA (EHEC) qPCR Kit	100 reactions
MD06201	Escherichia coli Typing stx1 & stx2 (STEC) qPCR Kit	100 reactions
MD05581	Hepatitis A virus RT-qPCR Kit	100 reactions
MD05281	Legionella pneumophila qPCR Kit	100 reactions
MD06651	Leptospira (16S rDNA + LipL32) qPCR Kit	100 reactions
MD05881	Leptospira (LipL32) qPCR Kit	100 reactions
MD06271	Leptospira spp. (16S rDNA) qPCR Kit	100 reactions
MD05071	Mycobacterium spp. qPCR Kit	100 reactions
MD05321	Saccharomyces cerevisiae qPCR Kit	100 reactions
MD05421	Salmonella spp. qPCR Kit	100 reactions
MD05441	Staphylococcus aureus qPCR Kit	100 reactions

## PHARMA QUALITY CONTROL

At NZYTech we understand that the pharmaceutical industry operates in a highly regulated and quality-controlled environment. Our qPCR kits are specifically designed to meet these standards, ensuring that your results are accurate, reproducible, and of the highest quality. Our kits undergo rigorous testing and quality control procedures to ensure that they meet the highest standards of performance and reliability. We use only the highest quality raw materials in the manufacture of our kits, and we perform extensive testing to ensure that each batch meets our strict quality control criteria. We also offer extensive technical support to ensure that our customers can use our kits with confidence. Our team of experienced scientists is always available to answer questions, troubleshoot issues, and guide experimental design and data analysis. Overall, our qPCR kits are the ideal choice for the pharmaceutical industry, offering the sensitivity, specificity, and reliability required for accurate and reproducible results in the highly regulated and quality-controlled environment of pharmaceutical research and development.

Catalogue number	Product name	Number of reactions
MD05851	Candida albicans qPCR Kit	100 reactions
MD06161	Escherichia coli qPCR Kit	100 reactions
MD05901	Pseudomonas aeruginosa qPCR Kit	100 reactions
MD06521	Salmonella enterica qPCR Kit	100 reactions
MD05421	Salmonella spp. qPCR Kit	100 reactions
MD05441	Staphylococcus aureus qPCR Kit	100 reactions



## ENDOGENOUS CONTROLS

Catalogue number	Product name	Number of reactions
<b>MD05791</b>	Endogenous Control B Real-Time PCR Kit	48 reactions
<b>MD05801</b>	Endogenous Control C Real-Time PCR Kit	48 reactions
<b>MD05811</b>	Endogenous Control D Real-Time PCR Kit	48 reactions
<b>MD05821</b>	Endogenous Control E Real-Time PCR Kit	48 reactions
<b>MD05831</b>	Endogenous Control F Real-Time PCR Kit	48 reactions





**IVD Reagents**

# IVD REAGENTS

In addition to offering a wide range of qPCR and RT-qPCR kits, NZYTech is also a leading manufacturer of specialized components for molecular diagnostics. Our molecular reagents category in the 2023/2024 catalogue features a range of high-quality components that are optimized for use in IVD and non-IVD qPCR and RT-qPCR kits. As an ISO 13485:2016 certified company, our molecular reagents are manufactured using the latest quality requisites and advancements in molecular biology, ensuring high sensitivity and specificity for accurate and reliable results. We offer a range of components, including PCR and RT-PCR enzymes, master mixes and ultra-pure dNTPs, for IVD and non-IVD assay development and optimization, that are essential for high-quality molecular diagnostic assays. NZYTech has also developed a range of ready-to-use solutions. Our molecular reagents are the result of our expertise in developing specialized components for a wide range of applications, including human and veterinary diagnostics, agriculture, and environmental monitoring, specially designed for molecular diagnostic manufacturers. With NZYTech's molecular reagents, you can be confident in the quality and reliability of our products, and our commitment to excellence in customer service and support.

## RAW MATERIALS

Catalogue number	Product name	Number of reactions
<b>MB44401</b>	NZY Bst DNA Polymerase	200 µL
<b>MB44402</b>	NZY Bst DNA Polymerase	3x 200 µL
LYO <b>MB40901</b>	Lyo NZY Reverse Transcriptase	100000 U
<b>MB08301</b>	NZY M-MuLV Reverse Transcriptase	20000 U
<b>MB08302</b>	NZY M-MuLV Reverse Transcriptase	100000 U
<b>MB12401</b>	NZY Reverse Transcriptase	20000 U
<b>MB12402</b>	NZY Reverse Transcriptase	100000 U
LYO <b>MB41102</b>	Lyo NZY Ribonuclease Inhibitor	20000
LYO <b>MB41103</b>	Lyo NZY Ribonuclease Inhibitor	5 x 20000 U
LYO <b>MB41202</b>	Lyo NZY Ribonuclease Inhibitor (no DTT)	20000
LYO <b>MB41203</b>	Lyo NZY Ribonuclease Inhibitor (no DTT)	5 x 20000 U
<b>MB08401</b>	NZY Ribonuclease Inhibitor	2500 U
<b>MB08402</b>	NZY Ribonuclease Inhibitor	5 x 2500 U
<b>MB41001</b>	NZY Ribonuclease Inhibitor (no DTT)	2500 U
<b>MB41002</b>	NZY Ribonuclease Inhibitor (no DTT)	5 x 2500 U
<b>MB35401</b>	NZYTaq II DNA Polymerase	500 U
<b>MB35402</b>	NZYTaq II DNA Polymerase	1000 U
<b>MB35403</b>	NZYTaq II DNA Polymerase	2500 U
<b>MB08701</b>	dNTPs NZYset, 100 mM (4 x 0,25 ml)	1 ml
<b>MB08601</b>	dNTPs NZYMix, 25 mM, 1 mL	1 ml
<b>MB08602</b>	dNTPs NZYMix, 25 mM, 5 mL	5 ml
<b>MB08603</b>	dNTPs NZYMix, 10 mM, 0,2 mL	0,2 ml
<b>MB08604</b>	dNTPs NZYMix, 10 mM, 1 ml	1 ml
<b>MB08605</b>	dNTPs NZYMix, 10 mM, 5 ml	5 ml

## OPTIMIZED FORMULATIONS

Catalogue number	Product name	Number of reactions
<b>MB45201</b>	NZYSupreme Multiplex qPCR Probe Master Mix (2x)	2 mL - 200 reactions x 20 uL
<b>MB45202</b>	NZYSupreme Multiplex qPCR Probe Master Mix (2x)	5 mL - 500 reactions x 20 uL
<b>MB45203</b>	NZYSupreme Multiplex qPCR Probe Master Mix (2x)	20 mL - 2000 reactions x 20 uL
Lyo <b>MB41702</b>	Lyo NZYSupreme qPCR Probe Master Mix (2x)	1.5 ml (150 x 20 µL)
<b>MB41601</b>	NZYSupreme qPCR Probe Master Mix (2x)	2 mL - 200 reactions x 20 uL
<b>MB41602</b>	NZYSupreme qPCR Probe Master Mix (2x)	5 mL - 500 reactions x 20 uL
<b>MB41603</b>	NZYSupreme qPCR Probe Master Mix (2x)	20 mL - 2000 reactions x 20 uL
<b>MB43801</b>	NZYSupreme qPCR Probe Master Mix (2x), ROX	2 mL - 200 reactions x 20 uL
<b>MB43802</b>	NZYSupreme qPCR Probe Master Mix (2x), ROX	5 mL - 500 reactions x 20 uL
<b>MB43803</b>	NZYSupreme qPCR Probe Master Mix (2x), ROX	20 mL - 2000 reactions x 20 uL
<b>MB43901</b>	NZYSupreme qPCR Probe Master Mix (2x), ROX plus	2 mL - 200 reactions x 20 uL
<b>MB43902</b>	NZYSupreme qPCR Probe Master Mix (2x), ROX plus	5 mL - 500 reactions x 20 uL
<b>MB43903</b>	NZYSupreme qPCR Probe Master Mix (2x), ROX plus	20 mL - 2000 reactions x 20 uL
<b>MB23001</b>	NZYSpeedy qPCR Probe Master Mix (2x)	2 mL - 200 reactions x 20 uL
<b>MB23002</b>	NZYSpeedy qPCR Probe Master Mix (2x)	5 mL - 500 reactions x 20 uL
<b>MB23003</b>	NZYSpeedy qPCR Probe Master Mix (2x)	20 mL - 2000 reactions x 20 uL
<b>MB22901</b>	NZYSpeedy qPCR Probe Master Mix (2x), ROX	2 mL - 200 reactions x 20 uL
<b>MB22902</b>	NZYSpeedy qPCR Probe Master Mix (2x), ROX	5 mL - 500 reactions x 20 uL
<b>MB22903</b>	NZYSpeedy qPCR Probe Master Mix (2x), ROX	20 mL - 2000 reactions x 20 uL
<b>MB22801</b>	NZYSpeedy qPCR Probe Master Mix (2x), ROX plus	2 mL - 200 reactions x 20 uL
<b>MB22802</b>	NZYSpeedy qPCR Probe Master Mix (2x), ROX plus	5 mL - 500 reactions x 20 uL
<b>MB22803</b>	NZYSpeedy qPCR Probe Master Mix (2x), ROX plus	20 mL - 2000 reactions x 20 uL
Lyo <b>MB41501</b>	Lyo NZYSupreme One-step RT-qPCR Probe Master Mix (2x)	1.5 ml (150 x 20 µL)
<b>MB41401</b>	NZYSupreme One-step RT-qPCR Probe Master Mix (2x)	2 mL - 200 reactions x 20 uL
<b>MB41402</b>	NZYSupreme One-step RT-qPCR Probe Master Mix (2x)	5 mL - 500 reactions x 20 uL
<b>MB41403</b>	NZYSupreme One-step RT-qPCR Probe Master Mix (2x)	20 mL - 2000 reactions x 20 uL
Lyo <b>MB44301</b>	Lyo NZYSupreme Multiplex One-step RT-qPCR Probe Master Mix (2x)	1.5 ml (150 x 20 µL)
<b>MB44201</b>	NZYSupreme Multiplex One-step RT-qPCR Probe Master Mix (2x)	2 mL - 200 reactions x 20 uL
<b>MB44202</b>	NZYSupreme Multiplex One-step RT-qPCR Probe Master Mix (2x)	5 mL - 500 reactions x 20 uL
<b>MB44203</b>	NZYSupreme Multiplex One-step RT-qPCR Probe Master Mix (2x)	20 mL - 2000 reactions x 20 uL

# TERMS & CONDITIONS



Thank you for browsing our catalogue of molecular diagnostic products. We understand that healthcare and research is more than just a job, it's a passion, and we're committed to supporting your journey with the most advanced products in the field of molecular diagnostics. From qPCR and RT-qPCR kits master mixes for testing, to nucleic acid extraction kits.

By scanning the QR code provided here, you can easily explore our range of products and gain access to our website for more information. We encourage you to take your time and explore at your own pace, as we're confident that you'll find something that suits your needs and goals.

We believe in the importance of providing high-quality products and exceptional customer service to our clients, and we're excited to offer you the tools you need to stay ahead of the curve in the world of molecular diagnostics.

Thank you again for taking the time to browse our catalogue. We hope you find what you're looking for, and we look forward to the opportunity to work with you.

# NOTES





# NOTES



# NOTES



# NOTES



# NOTES





# NOTES





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