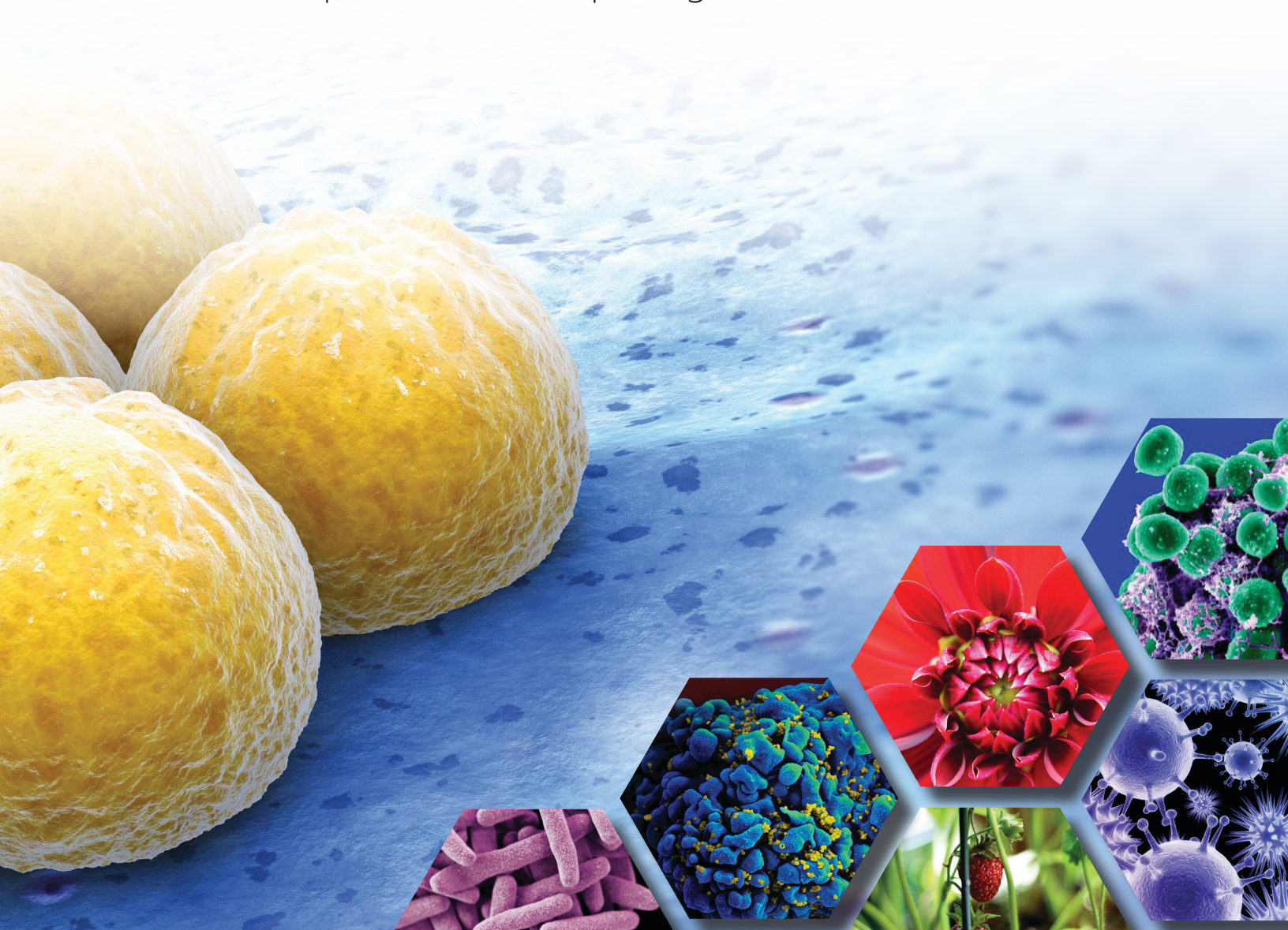




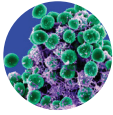
MOLECULAR DIAGNOSTIC KITS

Reliable and rapid detection of pathogens



www.norgenbiotech.com

An ISO 13485:2016 & 9001:2015 Certified Company



Molecular Diagnostic Kits

Norgen's Detection Kits are designed for the detection of pathogens and viruses for research use only and not for use in diagnostic procedures unless otherwise specified.

Some products are also available CE marked for *in vitro* diagnostic use. These products are labelled with a Dx catalogue number. Please note that these CE marked kits are not available for sale in all geographic regions, including the USA.

All kits were developed and validated to be used with the following PCR instruments:

- Qiagen Rotor-Gene Q
- BioRad CFX96 Touch™ Real-Time PCR Detection System

There are 2 different formats available for each pathogen/virus:

TaqMan PCR Kit

- ✓ PCR control to monitor for PCR inhibition and validate the quality
- ✓ Master Mix for the target and PCR control detection
- ✓ Primer and Probe mix
- ✓ Positive control and a negative control to confirm the integrity of the kit reagents

End-Point PCR Kit

- ✓ Master Mix and primers for the specific amplification of a region of the pathogen genome
- ✓ Positive control and a negative control to confirm the integrity of the kit reagents
- ✓ Loading dye and a DNA ladder to facilitate analysis of the results

Ordering Information

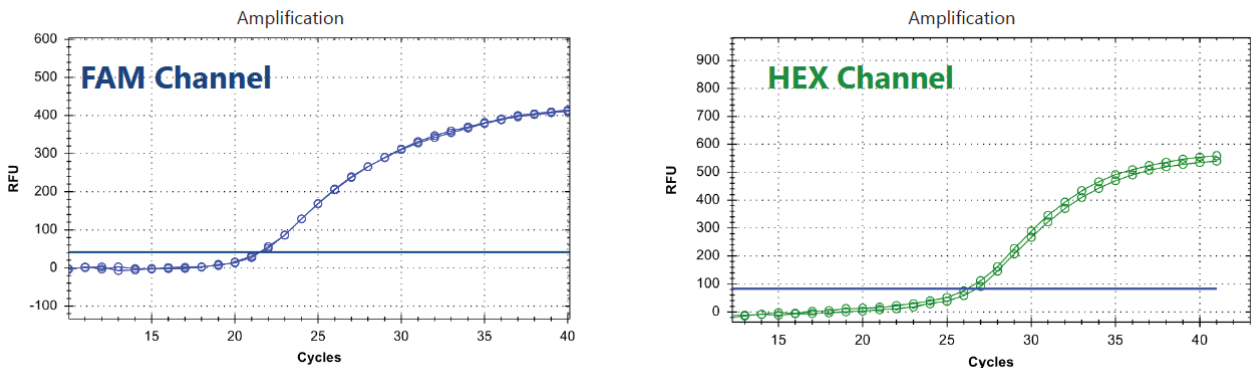
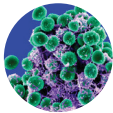
NORGEN
BIOTEK  CORP.

Norgen Biotek Corp.
3430 Schmon Pkwy
Thorold, ON
Canada L2V 4Y6

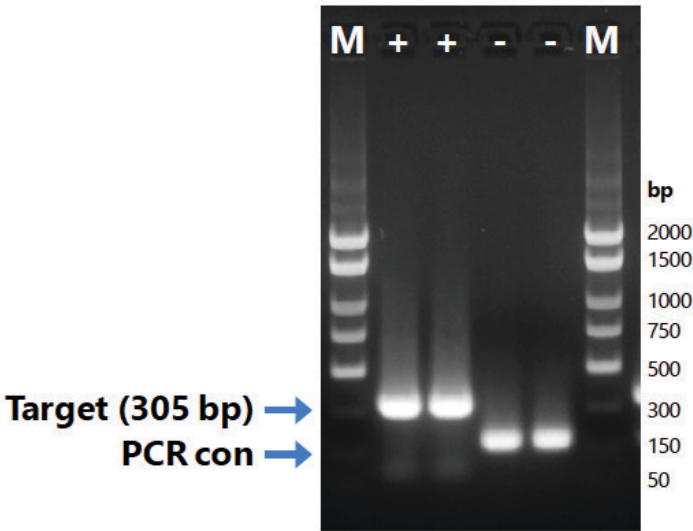
Website:	www.norgenbiotek.com
Email:	orders@norgenbiotek.com
Toll-Free (North America):	1-866-NORGENB
Telephone:	905-227-8848
Fax:	905-227-1061



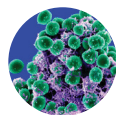
Norgen is an ISO 9001:2015 & ISO 13485:2016 registered company, indicating our commitment to quality.



TaqMan PCR Kit - Figure 1. Example of TaqMan PCR Positive result. Both PCR signals above the baseline from FAM and HEX channel indicate the successful PCR.

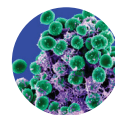


End-Point PCR Kit - Figure 2. A representative 1X TAE, 1.4 % agarose gel showing the amplification of HBV at different concentrations. The size of the HBV target amplicon corresponds to the 305 bp band represented by the provided DNA Marker (M).



Human Pathogen Detection

Pathogen		TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	CE TaqMan PCR Kit Dx (24 rxns)*	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
Yeast	<i>Candida albicans</i>	TM34000	TM34010	DxTM34000	EP34000	EP34010
	<i>Bacillus cereus</i>	TM36900	TM36910	N/A	EP36900	EP36910
Bacteria	Chlamydia	TM31400	TM31410	N/A	EP31400	EP31410
	Chlamydia/Neisseria gonorrhoeae	TM42500	TM42510	N/A	EP42500	EP42510
	<i>Clostridium difficile</i>	TM37100	TM37110	DxTM37100	EP37100	EP37110
	<i>Cryptococcus neoformans</i>	TM42720	TM42730	N/A	EP42720	EP42730
	<i>Escherichia coli</i> (E. coli) O157:H7	TM41300	TM41310	N/A	EP41300	EP41310
	Malaria	TM34800	TM34810	N/A	EP34800	EP34810
	<i>Mycobacterium tuberculosis</i>	TM42100	TM42110	DxTM42100	EP42100	EP42110
	<i>Neisseria gonorrhoea</i>	TM30900	TM30910	N/A	EP30900	EP30910
	<i>Pneumocystis jirovecii</i>	TM42820	TM42830	N/A	EP42820	EP42830
	<i>Staphylococcus aureus</i>	TM29300	TM29310	N/A	EP29300	EP29310
	<i>Trichomonas vaginalis</i>	TM52000	TM52010	N/A	EP52000	EP52010
	<i>Vibrio cholerae</i>	TM38500	TM38510	DxTM38500	EP38500	EP38510
Virus	Adenovirus Type C	TM42600	TM42610	N/A	EP42600	EP42610
	Avian Influenza A Virus (H5N1)	TM35400	TM35410	N/A	EP35400	EP35410
	BK virus (BKV)	TM36500	TM36510	N/A	EP36500	EP36510
	BK virus/John Cunningham virus (BKV/JCV)	TM39300	TM39310	N/A	EP39300	EP39310
	Cytomegalovirus (CMV)	TM36300	TM36310	N/A	EP36300	EP36310
	Enterovirus (HEV)	TM39700	TM39710	DxTM39700	EP39700	EP39710



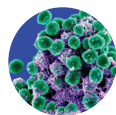
Human Pathogen Detection

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Molecular Diagnostic Kits

Pathogen	TaqMan			End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
	PCR Kit (24 rxns)	Probe/Primer & Control Set (100 rxns)	CE TaqMan PCR Kit Dx (24 rxns)*		
Epstein–Barr virus (EBV)	TM41000	TM41010	DxTM41000	EP41000	EP41010
Hepatitis B virus (HBV)	TM29200	TM29210	N/A	EP29200	EP29210
Hepatitis C virus (HCV)	TM37600	TM37610	N/A	EP37600	EP37610
Herpes simplex virus (HSV) 1	TM32600	TM32610	DxTM32600	EP32600	EP32610
Herpes simplex virus (HSV) 1 & 2	TM31700	TM31710	N/A	EP31700	EP31710
Herpes simplex virus (HSV) 2	TM32400	TM32410	DxTM32400	EP32400	EP32410
Human immunodeficiency virus (HIV)	TM33700	TM33710	N/A	EP33700	EP33710
Human papillomavirus (HPV) 6/16	TM42000	TM42010	N/A	EP42000	EP42010
Human papillomavirus (HPV) High and Low Risk	TM31500	TM31510	N/A	EP31500	EP31510
Human papillomavirus (HPV) High Risk	TM32200	TM32210	N/A	EP32200	EP32210
Influenza A Virus (H1N1)	TM27900	TM27910	DxTM27900	EP27900	EP27910
John Cunningham virus (JCV)	TM37200	TM37210	DxTM37200	EP37200	EP37210
Norovirus (NoV)	TM41400	TM41410	DxTM41400	EP41400	EP41410
Parvovirus B19	TM39600	TM39610	DxTM39600	EP39600	EP39610
Respiratory syncytial virus (RSV) A	TM34200	TM34210	N/A	EP34200	EP34210
Sin Nombre Virus (SNV)	TM51900	TM51910	N/A	EP51900	EP51910
Varicella zoster virus (VZV)	TM36700	TM36710	DxTM36700	EP36700	EP36710
Xenotropic murine leukemia virus-related virus (XMRV)	TM34700	TM34710	N/A	EP34700	EP34710
West Nile Virus (WNV)	TM44200	TM44210	DxTM44200	EP44200	EP44210
Zika Virus (ZIKV)	TM62200	TM62210	DxTM62200	EP62200	EP62210

* CE marked version available for *in vitro* diagnostic use. CE marked kits are not available for sale in the United States.

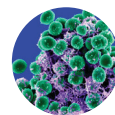


Plant Pathogen Detection

Pathogen		TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
Yeast	<i>Saccharomyces cerevisiae</i>	TM33300	TM33310	EP33300	EP33310
	<i>Aspergillus niger</i>	TM32900	TM32910	EP32900	EP32910
	<i>Botrytis cinerea</i>	TM29400	TM29410	EP29400	EP29410
Bacteria	<i>Candidatus Liberibacter</i>	TM64300	TM64310	EP64300	EP64310
	<i>Cladosporium cladosporioides</i>	TM33000	TM33010	EP33000	EP33010
	<i>Erwinia amylovora</i>	TM35100	TM35110	EP35100	EP35110
	<i>Penicillium sp.</i>	TM33200	TM33210	EP33200	EP33210
	<i>Phomopsis viticola</i>	TM34900	TM34910	EP34900	EP34910
Virus	Grapevine Leafroll-associated-3 Virus (GLRaV-3)	TM66000	TM66010	EP66000	EP66010
	Grapevine Red Blotch Virus (GRBV)	NEW! TM65800	N/A	N/A	N/A
	Plum Pox Virus (PPV)	TM33400	TM33410	EP33400	EP33410

Plant Viroid Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
Avocado Sunblotch Viroid (ASBVd)	TM38800	TM38810	EP38800	EP38810
Chrysanthemum Chlorotic Mottle Viroid (CChMVd)	TM35500	TM35510	EP35500	EP35510
<i>Chrysanthemum Stunt Viroid (CSVd)</i>	TM39900	TM39910	EP39900	EP39910
Citrus Exocortis Viroid (CEVd)	TM47600	TM47610	EP47600	EP47610
Coconut Cadang-Cadang Viroid (CCCVd)	TM47900	TM47910	EP47900	EP47910



Plant Viroid Detection

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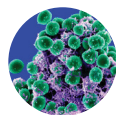
Molecular Diagnostic Kits

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
<i>Coconut Tinangaja Viroid (CTiVd)</i>	TM50500	TM50510	EP50500	EP50510
<i>Hop Stunt Viroid (HSVd)</i>	TM38900	TM38910	EP38900	EP38910
<i>Hop Latent Viroid (HLVd)</i>	TM38700	TM38710	EP38700	EP38710
<i>Peach Latent Mosaic Viroid (PLMVd)</i>	TM64200	TM64210	EP64200	EP64210
<i>Pospiviroid</i>	TM53700	TM53710	EP53700	EP53710
<i>Potato Spindle Tuber Viroid (PSTVd)</i>	TM38600	TM38610	EP38600	EP38610
<i>Tomato Chlorotic Dwarf Viroid (TCDVd)</i>	TM39000	TM39010	EP39000	EP39010
<i>Tomato Planta Macho Viroid (TPMVd)</i>	TM48000	TM48010	EP48000	EP48010

Food and Milk Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	CE TaqMan PCR Kit Dx (24 rxns)*	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
<i>Campylobacter jejuni</i>	TM36100	TM36110	N/A	EP36100	EP36110
<i>Listeria monocytogenes</i>	TM30400	TM30410	DxTM30400	EP30400	EP30410
<i>Salmonella enterica</i>	TM32100	TM32110	DxTM32100	EP32100	EP32110
<i>Streptococcus agalactiae</i>	TM30600	TM30610	N/A	EP30600	EP30610
<i>Streptococcus dysgalactiae</i>	TM30700	TM30710	N/A	EP30700	EP30710
<i>Streptococcus uberis</i>	TM30800	TM30810	N/A	EP30800	EP30810

Bacteria

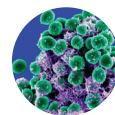


Animal Pathogen Detection

Pathogen		TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	CE TaqMan PCR Kit Dx (24 rxns)*	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
Bacteria	<i>Bordetella bronchiseptica</i>	TM44900	TM44910	N/A	EP44900	EP44910
	<i>Borrelia burgdorferi</i>	TM45200	TM45210	DxTM45200	EP45200	EP45210
	<i>Dirofilaria immitis</i>	TM44500	TM44510	N/A	EP44500	EP44510
	<i>Leptospira interrogans</i>	TM44600	TM44610	N/A	EP44600	EP44610
	<i>Toxoplasma gondii</i>	TM44700	TM44710	N/A	EP44700	EP44710
Virus	Canine Parvovirus	TM45000	TM45010	N/A	EP45000	EP45010
	Feline Calicivirus (FCV)	TM43900	TM43910	N/A	EP43900	EP43910
	Feline Herpes Virus (FHV)	TM44300	TM44310	N/A	EP44300	EP44310
	Feline Immunodeficiency Virus (FIV)	TM44100	TM44110	N/A	EP44100	EP44110
	Feline infectious peritonitis Virus (FIP)	TM44400	TM44410	N/A	EP44400	EP44410
	<i>Feline Leukemia Virus (FeLV)</i>	TM44000	TM44010	N/A	EP44000	EP44010
	Feline Panleukopenia Virus (FPV)	TM45100	TM45110	N/A	EP45100	EP45110
	<i>Rabies</i>	TM45300	TM45310	N/A	EP45300	EP45310

Cell Culture Detection

Pathogen		TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	CE TaqMan PCR Kit Dx (24 rxns)*	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
Bacteria	<i>Mycoplasma</i>	TM33100	TM33110	N/A	EP33100	EP33110
	<i>Mycoplasma genitalium</i>	TM62100	TM62110	DxTM62100	EP62100	EP62110



Water Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	CE TaqMan PCR Kit Dx (24 rxns)*	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
<i>Cryptosporidium</i>	TM39100	TM39110	DxTM39100	EP39100	EP39110
<i>Giardia intestinalis</i>	TM43800	TM43810	DxTM43800	EP43800	EP43810
<i>Legionella sp.</i>	TM64400	TM64410	DxTM64400	EP64400	EP64410

Bacteria

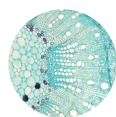
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Molecular Diagnostic Kits

Quantified DNA Standards for Pathogens

Quantified standards to be used as a positive control or PCR quantification standard

Product Name	Description	Cat. #
<i>Staphylococcus aureus</i> Quantified Bacterial DNA Standard	To be used as a positive control or PCR quantification standard for <i>Staphylococcus aureus</i> .	28301
<i>E. coli</i> O157:H7 Quantified Bacterial DNA Standards	To be used as a positive control or PCR quantification standard for <i>E. coli</i> O157:H7.	28302
<i>Neisseria gonorrhoeae</i> Quantified Bacterial DNA Standard	To be used as a positive control or PCR quantification standard for <i>Neisseria gonorrhoeae</i> .	28296
<i>Listeria monocytogenes</i> Quantified Bacterial DNA Standard	To be used as a positive control or PCR quantification standard for <i>Listeria monocytogenes</i> .	28299
<i>Salmonella enterica</i> Quantified Bacterial DNA Standard	To be used as a positive control or PCR quantification standard for <i>Salmonella enterica</i> .	28300



RNA Sample Preparation Kits

2

RNA Sample Preparation

Total RNA Extraction and Purification (incl. microRNA)	
Total RNA Purification Kit	17200
Total RNA Purification Kit Dx CE	Dx17200
Total RNA Purification Plus Kit	48300
Total RNA Purification Micro Kit	35300
Total RNA Purification Plus Micro Kit	48500
Total RNA Purification Maxi Kit	26800
Total RNA Purification 96-Well Kit	24300
Animal Tissue RNA Purification Kit	25700
microRNA Purification Kit	21300
Single Cell RNA Purification Kit	51800
Fatty Tissue RNA Purification Kit	36200

Isolate RNA, microRNA, DNA and Proteins from the Same Sample	
RNA/DNA/Protein Purification Plus Kit	47700
RNA/DNA/Protein Purification Plus Micro Kit	51600
RNA/DNA/Protein Purification 96-Well Plus Kit	51700
RNA/DNA Purification Kit	48700
RNA/DNA Purification Micro Kit	50300
RNA/Protein Purification Plus Kit	48200

Clean-Up and Concentration of microRNA and Total RNA	
RNA Clean-Up and Concentration Kit	23600
RNA Clean-Up and Concentration Micro-Elute Kit	61000
CleanAll RNA/DNA Clean-Up and Concentration Kit	23800
Oligo Clean-Up and Concentration Kit	34100

Plant and Environmental RNA and microRNA Isolation	
Plant/Fungi Total RNA Purification Kit	25800
Plant microRNA Purification Kit	54700
Plant RNA/DNA Purification Kit	24400
Soil Total RNA Purification Kit	27750
Water RNA/DNA Purification Kit - 0.45 µm and 0.22 µm	26450, 26400

Stool Purification	
Stool Total RNA Purification Kit	49500
Stool Total RNA Purification Kit Dx CE	Dx49500
Stool Nucleic Acid Isolation Kit	45600

Cytoplasmic and Nuclear RNA and microRNA Purification	
Cytoplasmic and Nuclear RNA Purification Kit	21000

FFPE RNA and microRNA Extraction and Purification	
FFPE RNA Purification Kit	25300
FFPE RNA Purification Kit Dx CE	Dx25300
FFPE RNA/DNA Purification Plus Kit	54300
FFPE RNA Purification 96-Well Kit	25400

Urine RNA and microRNA Isolation and Purification	
Urine Cell-Free Circulating RNA Purification Mini Kit	56900
Urine Cell-Free Circulating RNA Purification Midi Kit	57000
Urine Cell-Free Circulating RNA Purification Maxi Kit	57100
Urine Cell-Free Circulating and Viral Nucleic Acid Purification Mini Kit	59900
Urine Cell-Free Circulating and Viral Nucleic Acid Purification Midi Kit	60000
Urine Cell-Free Circulating and Viral Nucleic Acid Purification Maxi Kit	60100
Urine Exfoliated Cell RNA Purification Kit	22550
Urine microRNA Purification Kit	29000
Urine Total RNA Purification Maxi Kit (Slurry Format)	29600
Urine Total RNA Purification Maxi Kit Dx (Slurry Format) CE	Dx29600
Urine Exosome RNA Isolation Kit	47200

Blood/Plasma/Serum Sample Preparation Kits	
Plasma/Serum Circulating and Exosomal RNA Purification Kit (Slurry Format)	42800
Plasma/Serum Circulating and Exosomal RNA Purification Kit Dx (Slurry Format) CE	Dx42800
Plasma/Serum RNA Purification Mini Kit	55000
Plasma/Serum RNA Purification Midi Kit	56100
Plasma/Serum RNA Purification Maxi Kit	56200
Plasma/Serum RNA/DNA Purification Mini Kit	55200
Plasma/Serum Cell-Free Circulating and Viral Nucleic Acid Purification Mini Kit	56300
Plasma/Serum Cell-Free Circulating and Viral Nucleic Acid Purification Midi Kit	56400
Plasma/Serum Cell-Free Circulating and Viral Nucleic Acid Purification Maxi Kit	56500
Leukocyte RNA Purification Kit	21200
Leukocyte RNA Purification Plus Kit	21250
Leukocyte RNA Purification 96-Well Kit	37800
Preserved Blood RNA Purification Kit I (for use with Tempus™ Blood RNA Tubes)	43400
Preserved Blood RNA Purification Kit II (for use with PAXgene™ Blood RNA Tubes)	43500

NOTE: CE Marked Products are not available for sale in the United States.

For a complete list of all our products, please visit our website www.norgenbiotek.com



DNA Sample Preparation Kits

2

DNA Sample Preparation

Genomic DNA Purification Kits	
Genomic DNA Isolation Kit	24700
Cells and Tissue DNA Isolation Kit	53100
Cells and Tissue DNA Isolation Micro Kit	57300
Cells and Tissue DNA Isolation Kit (Magnetic Bead System)	59100
Microbiome DNA Isolation Kit	64100
Biofilm DNA Isolation Kit	62300
Fungi/Yeast Genomic DNA Isolation Kit	27300
Fungi/Yeast Genomic DNA Isolation 96-Well Kit	27350
Bacterial Genomic DNA Isolation Kit	17900
Milk Bacterial DNA Isolation Kit	21550
Phage DNA Isolation Kit	46800
Direct DNA Extraction Kit	61500

DNA Clean-Up Kits	
PCR Purification Kit	14400
DNA Gel Extraction Kit	13100
Oligo Clean-Up and Concentration Kit	34100
NGS Normalization 96-Well Kit	61900
Sequencing Reaction Clean-Up Kit	34500
PCR and Sequencing Reaction Clean-Up Kit (Magnetic Bead System)	60200

Plant and Environmental DNA Purification Kits	
Plant/Fungi DNA Isolation Kit	26200
Plant DNA Isolation Kit (Magnetic Bead System)	58200
Soil DNA Isolation Kit	26500
Soil DNA Isolation Plus Kit	64000
Soil DNA Isolation Maxi Kit	62000
Soil DNA Isolation 96-Well Kit	26560
Soil DNA Isolation Kit (Magnetic Bead System)	58100

FFPE DNA Extraction and Purification	
FFPE DNA Purification Kit	47400

Endotoxin Removal Kits	
Endotoxin Removal Kit (Mini) - For DNA	22700
Endotoxin Removal Kit (Midi) - For DNA	52200
Endotoxin Removal Kit (Maxi) - For DNA	21900

Food DNA Isolation Kits	
Food DNA Isolation Kit	54500
Olive Oil DNA Isolation Kit	61700

Air-Borne DNA Isolation Kits	
Microm DNA Isolation Kit	55300

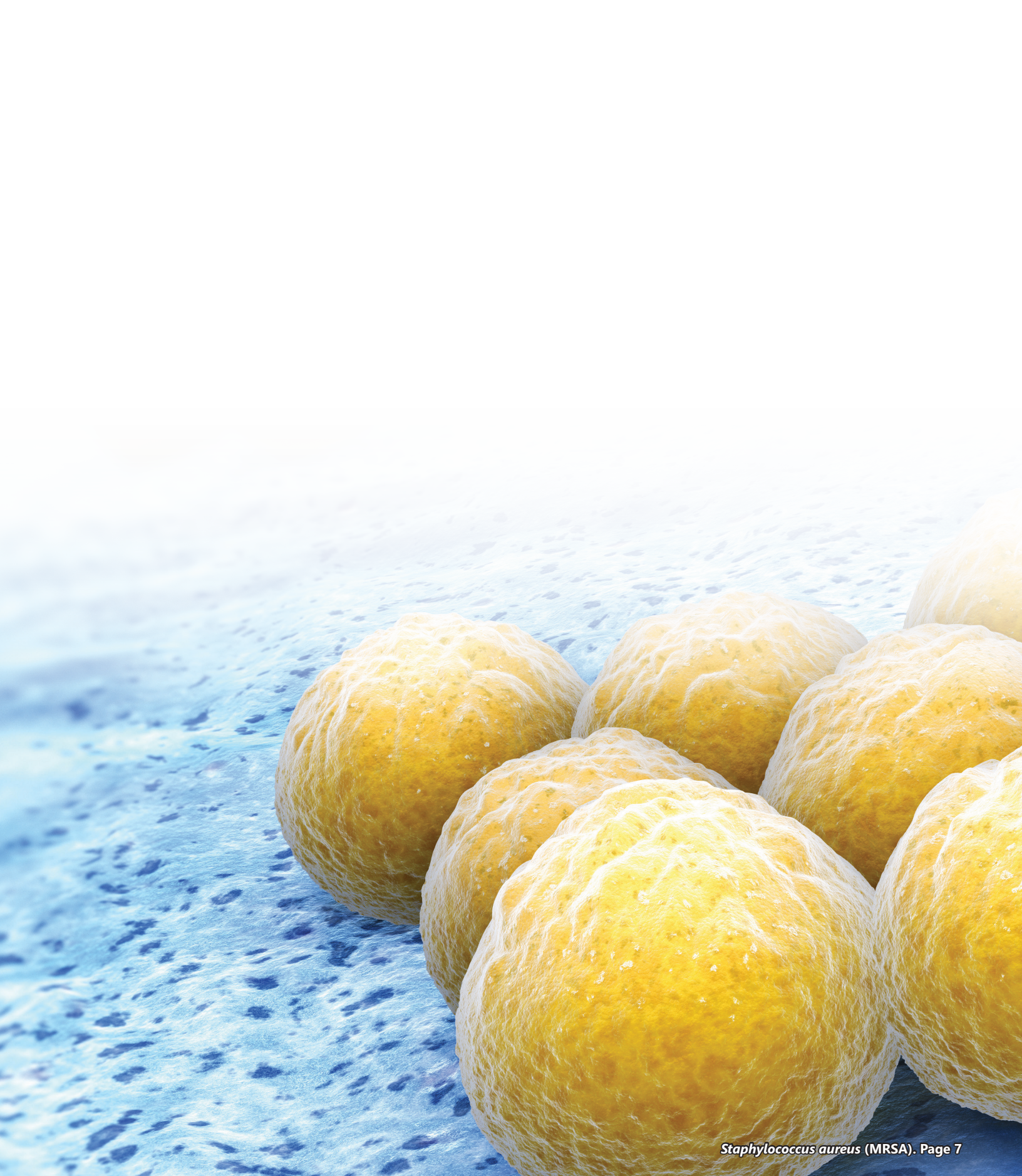
Urine DNA Purification Kits	
Urine Cell-Free Circulating DNA Purification Mini Kit	56600
Urine Cell-Free Circulating DNA Purification Midi Kit	56700
Urine Cell-Free Circulating DNA Purification Maxi Kit	56800
Urine DNA Isolation Micro Kit	18100
Urine DNA Isolation Kit (Slurry Format)	48800
Urine DNA Isolation Kit Dx (Slurry Format) € €	Dx48800
Urine DNA Isolation Kit for Exfoliated Cells or Bacteria	47050

Blood/Plasma/Serum Sample Preparation Kits	
Dried Blood Spot (DBS) DNA Isolation Kit	36000
Blood DNA Isolation Mini Kit	46300
Blood DNA Isolation Mini Kit Dx € €	Dx46300
Blood DNA Isolation Midi Kit	51400
Blood DNA Isolation Maxi Kit	31200
Blood DNA Isolation 96-Well Kit	46350
Blood DNA Isolation Kit (Magnetic Bead System)	59800
Plasma/Serum cfc-DNA Purification Micro Kit	55500
Plasma/Serum cfc-DNA Purification Micro Kit Dx € €	Dx55500
Plasma/Serum cfc-DNA Purification Mini Kit	55100
Plasma/Serum cfc-DNA Purification Mini Kit Dx € €	Dx55100
Plasma/Serum cfc-DNA Purification Midi Kit	55600
Plasma/Serum cfc-DNA Purification Midi Kit Dx € €	Dx55600
Plasma/Serum cfc-DNA Purification Maxi Kit	55800
Plasma/Serum cfc-DNA Purification Maxi Kit Dx € €	Dx55800
Plasma/Serum Circulating DNA Purification Mini Kit (Slurry Format)	50600
Plasma/Serum Circulating DNA Purification Mini Kit Dx (Slurry Format) € €	Dx50600

Stool Purification	
Stool DNA Isolation Kit	27600
Stool DNA Isolation Kit Dx € €	Dx27600
Stool DNA Isolation Kit (Magnetic Bead System)	55700

Plasmid Purification Kits	
Plasmid MiniPrep DNA Kit	13300
Plasmid DNA Maxiprep Kit	46500
Plasmid MiniPrep Kit (Magnetic Bead System)	60300
BAC DNA Miniprep Kit	18050

Saliva and Sputum DNA Isolation Kits	
Saliva DNA Isolation Kit	RU45400
Saliva DNA Isolation Kit Dx € €	Dx45400
Saliva DNA Isolation 96-Well Kit	RU35200
Saliva DNA Isolation Kit (Magnetic Bead System)	RU55400
Saliva DNA Isolation Reagent Kit (up to 4 mL)	RU35720
Sputum DNA Isolation Kit	46200



Staphylococcus aureus (MRSA). Page 7