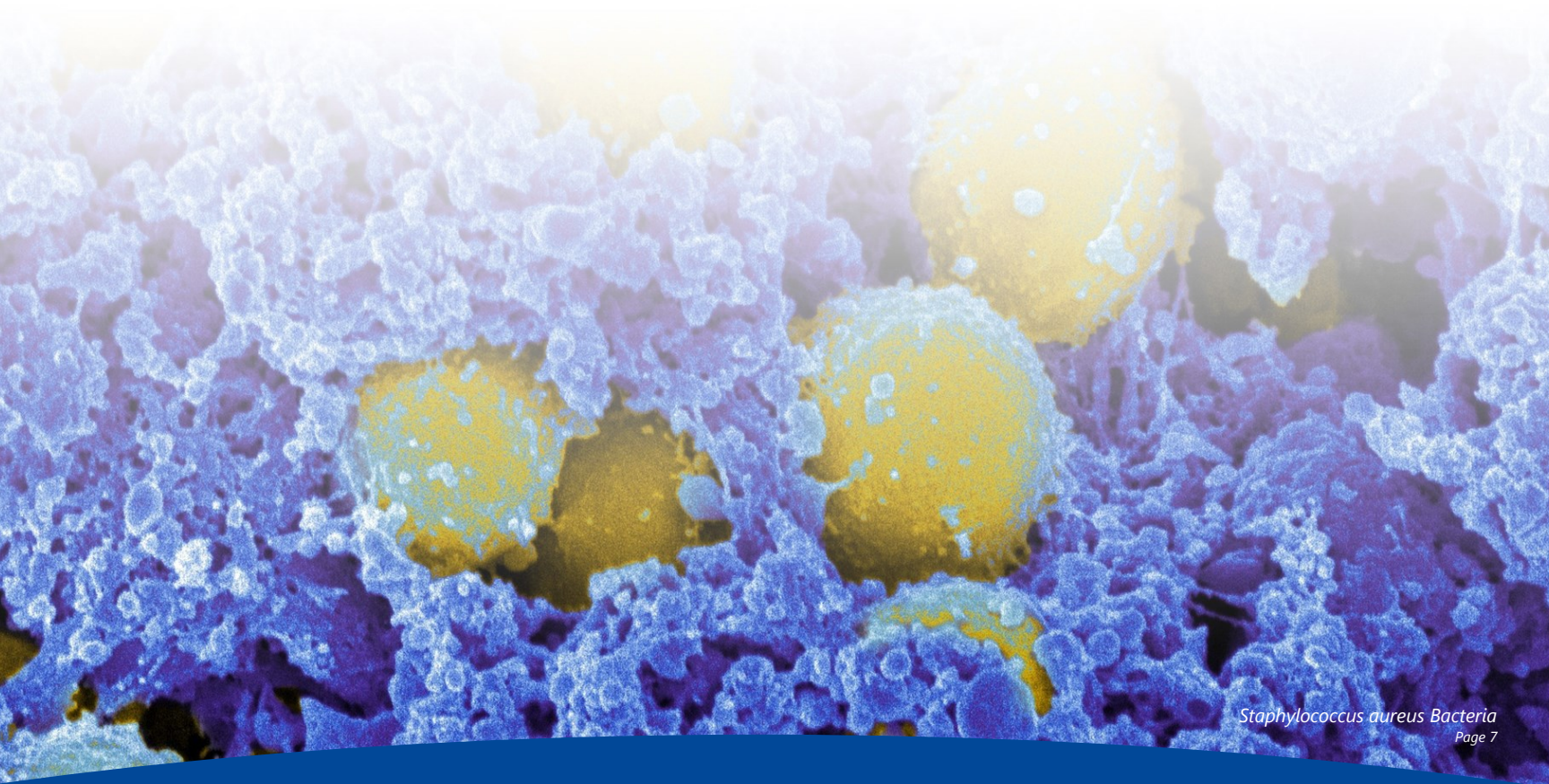


NORGEN
BIOTEK  CORP.

MOLECULAR DIAGNOSTIC KITS



Staphylococcus aureus Bacteria
Page 7

www.norgenbiotek.com



Molecular Diagnostic Kits

Intended Use

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

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 3 different formats available for each pathogen/virus:

TaqMan PCR Kit

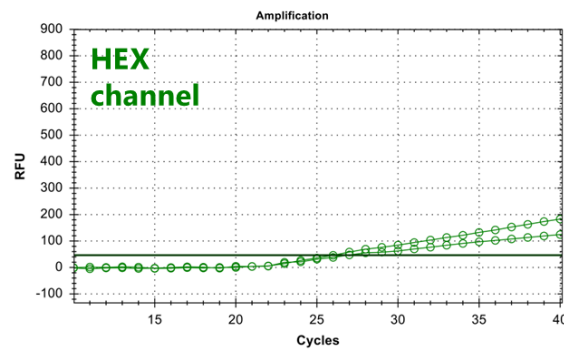
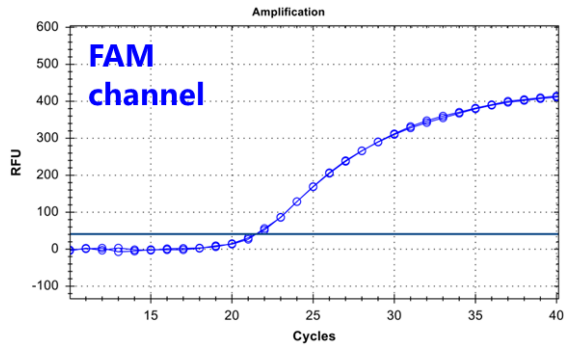
- ✓ PCR control to monitor for PCR inhibition and validate the quality
- ✓ Master Mix for the target and PCR control detection
- ✓ Primer and Probe mix
- ✓ Positive control and a negative control to confirm the integrity of the kit reagents

SYBR Green PCR Kit

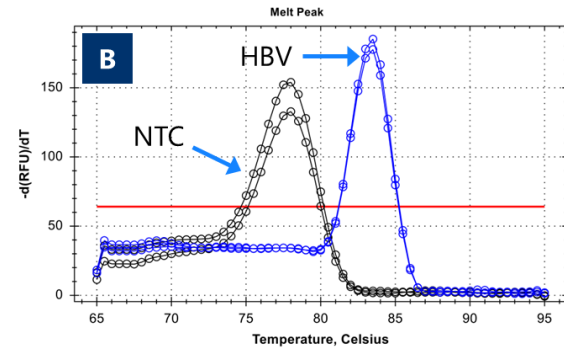
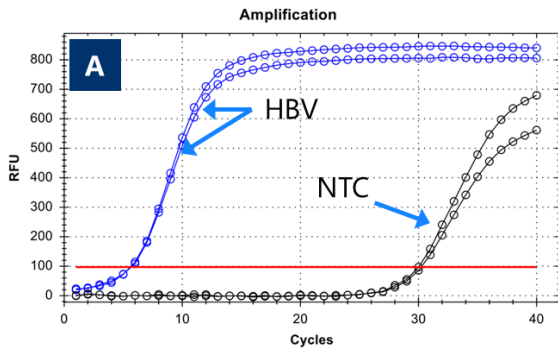
- ✓ Master Mix for the target detection
- ✓ Control Master Mix for the PCR validation
- ✓ Primers for the specific amplification of a region of the pathogen genome
- ✓ Positive control and a negative control to confirm the integrity of the kit reagents

End-Point PCR Kit

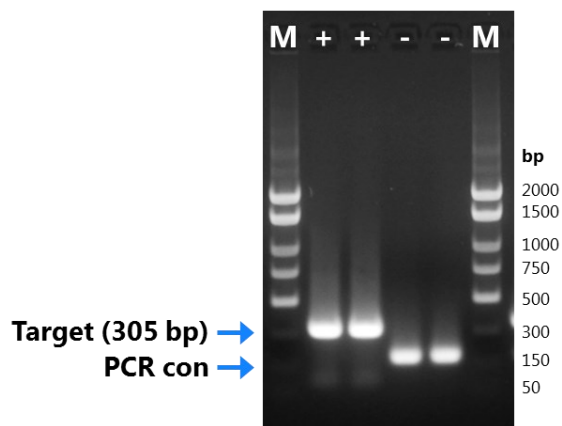
- ✓ Master Mix and primers for the specific amplification of a region of the pathogen genome
- ✓ Positive control and a negative control to confirm the integrity of the kit reagents
- ✓ Loading dye and a DNA ladder to facilitate analysis of the results



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.



SYBR Green PCR Kit - Figure 1. Expected positive and negative sample data from the target detection (with MDx SYBR 2x PCR Master Mix) setting. Real-Time amplification plot (A) and melting curve (B) indicate the range of Ct. and unique melting temperature of negative (77.0°C) and positive (83.5°C) respectively.



End-Point PCR Kit - Figure 1. 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 327 bp band represented by the provided DNA Marker (M).

Ordering Information



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 9001:2008, ISO 13485:2003 and ISO 15189:2012 registered company, indicating our commitment to quality.

Animal Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	SYBR Green PCR Kit (24 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
<i>Bordetella bronchiseptica</i>	TM44900	TM44910	SG44900	EP44900	EP44910
<i>Borrelia burgdorferi</i>	TM45200	TM45210	SG45200	EP45200	EP45210
Canine Parvovirus	TM45000	TM45010	SG45000	EP45000	EP45010
<i>Dirofilaria immitis</i>	TM44500	TM44510	SG44500	EP44500	EP44510
Feline Calicivirus	TM43900	TM43910	SG43900	EP43900	EP43910
Feline Herpes Virus	TM44300	TM44310	SG44300	EP44300	EP44310
Feline Immunodeficiency Virus	TM44100	TM44110	SG44100	EP44100	EP44110
Feline infectious peritonitis Virus (FIP)	TM44400	TM44410	SG44400	EP44400	EP44410
Feline Leukemia Virus	TM44000	TM44010	SG44000	EP44000	EP44010
Feline Panleukopenia Virus (FPV)	TM45100	TM45110	SG45100	EP45100	EP45110
Horse DNA	TM61800	TM61810	SG61800	EP61800	EP61810
<i>Leptospira interrogans</i>	TM44600	TM44610	SG44600	EP44600	EP44610
Rabies	TM45300	TM45310	SG45300	EP45300	EP45310
<i>Toxoplasma gondii</i>	TM44700	TM44710	SG44700	EP44700	EP44710

Cell Culture Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	SYBR Green PCR Kit (24 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
<i>Mycoplasma</i>	TM33100	TM33110	SG33100	EP33100	EP33110

Food and Milk Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	SYBR Green PCR Kit (24 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
<i>Campylobacter jejuni</i>	TM36100	TM36110	SG36100	EP36100	EP36110
<i>Listeria monocytogenes</i>	TM30400	TM30410	SG30400	EP30400	EP30410
<i>Salmonella enterica</i>	TM32100	TM32110	SG32100	EP32100	EP32110
<i>Streptococcus agalactiae</i>	TM30600	TM30610	SG30600	EP30600	EP30610
<i>Streptococcus dysgalactiae</i>	TM30700	TM30710	SG30700	EP30700	EP30710
<i>Streptococcus uberis</i>	TM30800	TM30810	SG30800	EP30800	EP30810

Plant Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	SYBR Green PCR Kit (24 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
<i>Aspergillus Niger</i>	TM32900	TM32910	SG32900	EP32900	EP32910
<i>Botrytis cinerea</i>	TM29400	TM29410	SG29400	EP29400	EP29410
<i>Cladosporium cladosporioides</i>	TM33000	TM33010	SG33000	EP33000	EP33010
<i>Erwinia amylovora</i>	TM35100	TM35110	SG35100	EP35100	EP35110
<i>Penicillium sp.</i>	TM33200	TM33210	SG33200	EP33200	EP33210
<i>Phomopsis viticola</i>	TM34900	TM34910	SG34900	EP34900	EP34910
Plum Pox Virus (PPV)	TM33400	TM33410	SG33400	EP33400	EP33410
<i>Saccharomyces cerevisiae</i>	TM33300	TM33310	SG33300	EP33300	EP33310

Human Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	SYBR Green PCR Kit (24 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
Adenovirus Type C	TM42600	TM42610	SG42600	EP42600	EP42610
Avian Influenza A Virus (H5N1)	TM35400	TM35410	SG35400	EP35400	EP35410
<i>Bacillus cereus</i>	TM36900	TM36910	SG36900	EP36900	EP36910
BK Virus (BKV)	TM36500	TM36510	SG36500	EP36500	EP36510
BKV/JCV	TM39300	TM39310	SG39300	EP39300	EP39310
<i>Candida albicans</i>	TM34000	TM34010	SG34000	EP34000	EP34010
Chlamydia	TM31400	TM31410	SG31400	EP31400	EP31410
Chlamydia/ <i>Neisseria gonorrhoeae</i>	TM42500	TM42510	SG42500	EP42500	EP42510
<i>Clostridium difficile</i>	TM37100	TM37110	SG37100	EP37100	EP37110
<i>Cryptococcus neoformans</i>	TM42720	TM42730	SG42720	EP42720	EP42730
Cytomegalovirus (CMV)	TM36300	TM36310	SG36300	EP36300	EP36310
<i>E. coli</i> O157:H7	TM41300	TM41310	SG41300	EP41300	EP41310
Enterovirus	TM39700	TM39710	SG39700	EP39700	EP39710
Epstein–Barr Virus (EBV)	TM41000	TM41010	SG41000	EP41000	EP41010
Hepatitis B Virus (HBV)	TM29200	TM29210	SG29200	EP29200	EP29210
Hepatitis C Virus (HCV)	TM37600	TM37610	SG37600	EP37600	EP37610
Herpes Simplex Virus Type 1 (HSV-1)	TM32600	TM32610	SG32600	EP32600	EP32610
Herpes Simplex Virus Type 2 (HSV-2)	TM32400	TM32410	SG32400	EP32400	EP32410
Herpes Simplex Virus Types 1&2 (HSV-1&2)	TM31700	TM31710	SG31700	EP31700	EP31710
HIV Quantification	TM33740	TM33750	SG33740	EP33740	EP33750
HPV 6/16	TM42000	TM42010	SG42000	EP42000	EP42010

Human Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	SYBR Green PCR Kit (24 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
HPV High and Low Risk	TM31500	TM31510	SG31500	EP31500	EP31510
HPV High Risk	TM32200	TM32210	SG32200	EP32200	EP32210
Human Immunodeficiency Virus (HIV)	TM33700	TM33710	SG33700	EP33700	EP33710
Influenza A Virus (H1N1)	TM27900	TM27910	SG27900	EP27900	EP27910
John Cunningham Virus (JCV)	TM37200	TM37210	SG37200	EP37200	EP37210
Malaria	TM34800	TM34810	SG34800	EP34800	EP34810
<i>Mycobacterium tuberculosis</i>	TM42100	TM42110	SG42100	EP42100	EP42110
<i>Neisseria gonorrhoea</i>	TM30900	TM30910	SG30900	EP30900	EP30910
Norovirus	TM41400	TM41410	SG41400	EP41400	EP41410
Parvovirus B19	TM39600	TM39610	SG39600	EP39600	EP39610
<i>Pneumocystis jirovecii</i>	TM42820	TM42830	SG42820	EP42820	EP42830
Respiratory Syncytial Virus Type A (RSV-A)	TM34200	TM34210	SG34200	EP34200	EP34210
<i>Sin Nombre Virus</i>	TM51900	TM51910	SG51900	EP51900	EP51910
<i>Staphylococcus aureus</i>	TM29300	TM29310	SG29300	EP29300	EP29310
<i>Trichomonas vaginalis</i>	TM52000	TM52010	SG52000	EP52000	EP52010
<i>Varicella Zoster Virus (VZV)</i>	TM36700	TM36710	SG36700	EP36700	EP36710
<i>Vibrio cholerae</i>	TM38500	TM38510	SG38500	EP38500	EP38510
Xenotropic Murine Leukemia Virus-Related Virus (XMRV)	TM34700	TM34710	SG34700	EP34700	EP34710
West Nile Virus	TM44200	TM44210	SG44200	EP44200	EP44210
<i>Zika Virus (ZIKV)</i>	TM62200	TM62210	SG62200	EP62200	EP62210



Viroid Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	SYBR Green PCR Kit (24 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
Avocado Sunblotch Viroid (ASBVd)	TM38800	TM38810	SG38800	EP38800	EP38810
Chrysanthemum Chlorotic Mottle Viroid (CChMVd)	TM35500	TM35510	SG35500	EP35500	EP35510
Chrysanthemum Stunt Viroid (CSVd)	TM39900	TM39910	SG39900	EP39900	EP39910
Citrus Exocortis Viroid (CEVd)	TM47600	TM47610	SG47600	EP47600	EP47610
Coconut Cadang-Cadang Viroid (CCCVd)	TM47900	TM47910	SG47900	EP47900	EP47910
Coconut Tinangaja Viroid (CTiVd)	TM50500	TM50510	SG50500	EP50500	EP50510
Hop Latent Viroid (HLVd)	TM38700	TM38710	SG38700	EP38700	EP38710
Hop Stunt Viroid (HSVd)	TM38900	TM38910	SG38900	EP38900	EP38910
<i>Pospiviroid</i>	TM53700	TM53710	SG53700	EP53700	EP53710
Potato Spindle Tuber Viroid (PSTVd)	TM38600	TM38610	SG38600	EP38600	EP38610
Tomato Chlorotic Dwarf Viroid (TCDVd)	TM39000	TM39010	SG39000	EP39000	EP39010
Tomato Planta Macho Viroid (TPMVd)	TM48000	TM48010	SG48000	EP48000	EP48010

Water Pathogen Detection

Pathogen	TaqMan PCR Kit (24 rxns)	TaqMan Probe/Primer & Control Set (100 rxns)	SYBR Green PCR Kit (24 rxns)	End-Point PCR Kit (24 rxns)	Primer & Control Set (100 rxns)
<i>Cryptosporidium</i>	TM39100	TM39110	SG39100	EP39100	EP39110
<i>Giardia intestinalis</i>	TM43800	TM43810	SG43800	EP43800	EP43810

Quantified DNA Standards for Pathogens

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

Product	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

Kit Name	Cat. #
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
Animal Tissue RNA Purification Kit	25700
microRNA Purification Kit	21300
Single Cell RNA Purification Kit	51800
Fatty Tissue RNA Purification Kit	36200
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 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
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
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 Exosome RNA Isolation Kit	47200

Kit Name	Cat. #
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
Plant and Environmental RNA and microRNA Purification	
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
Blood/Plasma/Serum Sample Preparation Kits	
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 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
Cytoplasmic and Nuclear RNA and microRNA Purification	
Cytoplasmic and Nuclear RNA Purification Kit	21000

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

DNA Sample Preparation Kits

Kit Name	Cat. #
Genomic DNA Purification Kits	
Milk Bacterial DNA Isolation Kit	21550
Saliva DNA Isolation Kit	RU45400
Saliva DNA Isolation Kit Dx CE	Dx45400
Sputum DNA Isolation Kit	46200
Genomic DNA Isolation Kit	24700
Direct DNA Extraction Kit	61500
Cells and Tissue DNA Isolation Kit	53100
Cells and Tissue DNA Isolation Micro Kit	57300
Biofilm DNA Isolation Kit	62300
Fungi/Yeast Genomic DNA Isolation Kit	27300
Bacterial Genomic DNA Isolation Kit	17900
Stool DNA Isolation Kit	27600
Stool DNA Isolation Kit Dx CE	Dx27600
Stool Nucleic Acid Isolation Kit	45600
Phage DNA Isolation Kit	46800
Urine DNA Purification Kits	
Urine DNA Isolation Kit Dx (Slurry Format) CE	Dx48800
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 Cell-Free Circulating and Viral Nucleic Acid Purification Mini Kit	56900
Urine Cell-Free Circulating and Viral Nucleic Acid Purification Midi Kit	57000
Urine Cell-Free Circulating and Viral Nucleic Acid Purification Maxi Kit	57100
Urine DNA Isolation Micro Kit	18100
Urine DNA Isolation Kit for Exfoliated Cells or Bacteria	47050
Plant and Environmental DNA Purification Kits	
Plant/Fungi DNA Isolation Kit	26200
Soil DNA Isolation Kit	26500
Soil DNA Isolation Maxi Kit	62000
Soil DNA Isolation Kit (Magnetic Bead System)	58100
Water RNA/DNA Purification Kit - 0.45 µm and 0.22 µm	26450, 26400
FFPE DNA Extraction and Purification	
FFPE DNA Purification Kit	47400
Air-Borne DNA Isolation Kits	
Microm DNA Isolation Kit	55300

Kit Name	Cat. #
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 CE	Dx46300
Blood DNA Isolation Midi Kit	51400
Blood DNA Isolation Maxi Kit	31200
Plasma/Serum Circulating DNA Purification Mini Kit Dx (Slurry Format) CE	Dx50600
Plasma/Serum Cell-Free Circulating DNA Purification Micro Kit	55500
Plasma/Serum Cell-Free Circulating DNA Purification Mini Kit	55100
Plasma/Serum Cell-Free Circulating DNA Purification Midi Kit	55600
Plasma/Serum Cell-Free Circulating DNA Purification Maxi Kit	55800
DNA Clean-Up Kits	
PCR Purification Kit	14400
DNA Gel Extraction Kit	13100
Oligo Clean-Up and Concentration Kit	34100
Sequencing Reaction Clean-Up Kit	34500
Size-Select Kit for NGS Library Preparation	53600
CleanAll RNA/DNA Clean-Up and Concentration Kit	23800
Endotoxin Removal Kits	
Endotoxin Removal Kit (Mini) - For DNA	22700
Endotoxin Removal Kit (Midi) - For DNA	52200
Endotoxin Removal Kit (Maxi) - For DNA	21900
Plasmid Purification Kits	
Plasmid MiniPrep DNA Kit	13300
Plasmid DNA Maxiprep Kit	46500
BAC DNA Miniprep Kit	18050
Food DNA Isolation Kits	
Food DNA Isolation Kit	54500
Olive Oil DNA Isolation Kit	61700



COMMITMENT TO QUALITY



NORGEN
BIOTEK  CORP.

3430 Schmon Parkway, Thorold, ON L2V 4Y6 Canada
Phone: (905) 227-8848
Toll Free: 1-866-NORGENB (667-4362)
Fax: (905) 227-1061
Email: info@norgenbiotek.com

www.norgenbiotek.com

An ISO 13485:2003, ISO 9001:2008 & ISO 15189:2012 Certified Company