TECHNE

Prime Pro

qPCR reagent kits

qPCR reagent kits from Techne

Techne offer a range of over 400 Prime Pro DNA/RNA pathogen detection kits for a wide variety of applications. The kits contain all of the components required to run 150 tests. To use the kits, simply combine the components and introduce your DNA/RNA before placing into your real time PCR instrument. For your convenience, each kit is available with and without the mastermix component. The kit components are lyophilised (freeze dried) so can be shipped and stored at ambient temperature. They are stable for 18 months. Suitable for:

- Molecular Biology research
- Hospitals
- Research
- Food agencies
- Water testing
- Standards and testing agencies
- Health agencies
- Defence agencies
- Veterinary/Agriculture
- Parasitology
- For general laboratory and research only

DNA Kits

Each Prime Pro DNA reagent kit employs the same experimental setup, amplification protocol and interpretation of results.

Plate setup includes:

1. Internal control DNA (read through VIC) and samples (read through FAM).
2. Beta-actin endogenous control (read through VIC).
3. Positive control, also used for standard curve (read through FAM).
4. Negative control (read through FAM).

DNA Protocol

	Step	Time	Temperature
1 cycle	Enzyme activation	10 minutes	95°C
50 cycles	Denaturation	10 seconds	95°C
	Data collection*	60 seconds	60°C

* Fluorogenic data for the pathogen and Beta-actin endogenous control is collected during this step through the FAM channel. Fluorogenic data for the internal extraction control should be collected during this step through the VIC channel (or the Cy5 channel if using a Roche LightCycler 1.0 or 1.5)

DNA Results

Pathogen	Internal control	Negative control	Positive control	Interpretation
+	+	-	+	Positive result
+	-	-	+	
-	+	-	+	Negative result
-	-	-	-	Experiment fail
+	+	+	+	

Kit contents

- Lyophilised primer and probe mix
- Lyophilised master mix
- Lyophilised master mix resuspension buffer
- Lyophilised ROX Ampule
- High-copy DNA for standard curve
- Internal extraction control DNA
- Beta-actin endogenous control
- RNAse/DNAse free water
- Reverse transcriptase (RNA kits only)

Advantages

- Kits packed in a convenient foil pouch
- Lyophilised - (freeze dried)
  - o No dry ice shipping required
  - o Reduced shipping costs
  - o Ship to hot climates
  - o Ship at the weekend
- Simple protocol, identical for each kit
- 150 reactions per kit.
  - o Low cost per test
- qPCR can be days faster, more accurate and more quantifiable than traditional microbiological methods
- Suitable for any qPCR instrument with FAM/VIC detection

RNA Kits

Each Prime Pro RNA reagent kit employs the same experimental setup, amplification protocol and interpretation of results.

Plate setup includes:

1. Internal control DNA (read through VIC) and samples (read through FAM).
2. Beta-actin endogenous control (read through VIC).
3. Positive control, also used for standard curve (read through FAM).
4. Negative control (read through FAM).

RNA Protocol

	Step	Time	Temperature
1 cycle	Reverse transcription	10 minutes	55°C
	Enzyme activation	8 minutes	95°C
50 cycles	Denaturation	10 seconds	95°C
	Data collection*	60 seconds	60°C

* Fluorogenic data for the pathogen and Beta-actin endogenous control is collected during this step through the FAM channel. Fluorogenic data for the internal extraction control should be collected during this step through the VIC channel (or the Cy5 channel if using a Roche LightCycler 1.0 or 1.5)

RNA Results

Pathogen	Internal control	Negative control	Positive control	Interpretation
+	+	-	+	Positive result
+	-	-	+	
-	+	-	+	Negative result
-	-	-	-	Experiment fail
+	+	+	+	

Human pathogens

Human pathogen detection kits form the largest part of the Prime Pro reagent range. This segment includes kits for pathogenic bacteria, viruses, protozoa and parasites.

- Respiratory infections
- Sexually transmitted infections
- Herpes infections
- Hepatitis viruses
- Human papillomavirus
- Gastrointestinal infections
- Vector-borne diseases
- Meningitis
- Periodontal infections
- Influenza H1N1

Without Mastermix	With Mastermix	Description
TKIT10001	TKIT10001M	DNA, Aggregatibacter actinomycetemcomitans
TKIT10002	TKIT10002M	DNA, Acinetobacter baumannii
TKIT10003	TKIT10003M	DNA, Ajellomyces capsulata
TKIT10004	TKIT10004M	DNA, All Acanthamoeba species
TKIT10005	TKIT10005M	DNA, Adenovirus Type B
TKIT10006	TKIT10006M	DNA, Adenovirus Type C
TKIT10007	TKIT10007M	DNA, Adenovirus Type F&G
TKIT10008	TKIT10008M	DNA, Borrelia afzelii
TKIT10009	TKIT10009M	DNA, Borrelia burgdorferi
TKIT10010	TKIT10010M	DNA, All species Burkholderia cepacia complex
TKIT10011	TKIT10011M	DNA, Borrelia garinii
TKIT10012	TKIT10012M	DNA, Balamuthia mandrillaris
TKIT10013	TKIT10013M	DNA, All Bacteroides species
TKIT10014	TKIT10014M	DNA, BK virus
TKIT10015	TKIT10015M	DNA, Bordetella pertussis
TKIT10016	TKIT10016M	DNA, Candida albicans
TKIT10017	TKIT10017M	DNA, Clostridium difficile (toxin A)
TKIT10018	TKIT10018M	DNA, Clostridium difficile (toxin B)
TKIT10019	TKIT10019M	DNA, Corynebacterium diphtheriae (A and B)
TKIT10020	TKIT10020M	DNA, Clostridium sporogenes
TKIT10021	TKIT10021M	DNA, Chlamydia trachomatis
TKIT10022	TKIT10022M	RNA, Chaoyang virus
TKIT10023	TKIT10023M	RNA, Chikungunya virus
TKIT10024	TKIT10024M	DNA, Cytomegalovirus (HHV5)
TKIT10025	TKIT10025M	RNA, Dengue virus
TKIT10026	TKIT10026M	RNA, Dengue virus Type 3
TKIT10027	TKIT10027M	DNA, Enterococcus caseliflavus
TKIT10028	TKIT10028M	DNA, Enterobacter cloacae
TKIT10029	TKIT10029M	DNA, Entamoeba histolytica
TKIT10030	TKIT10030M	DNA, Epstein Barr virus (HHV4)
TKIT10031	KIT10031M	DNA, All Ehrlichia species
TKIT10032	TKIT10032M	DNA, All Entamoeba species

Without Mastermix	With Mastermix	Description
TKIT10033	TKIT10033M	RNA, All Human Enterovirus species
TKIT10034	TKIT10034M	DNA, Filifactor alocis
TKIT10035	TKIT10035M	RNA, Influenza Type A M1
TKIT10036	TKIT10036M	RNA, Human Influenza Type A M2
TKIT10037	TKIT10037M	RNA, Human Influenza Type B
TKIT10038	TKIT10038M	DNA, Fungi Kingdom (including Yeast)
TKIT10039	TKIT10039M	DNA, Haemophilus ducreyi
TKIT10040	TKIT10040M	DNA, Haemophilus influenzae
TKIT10041	TKIT10041M	DNA, H Pylori
TKIT10043	TKIT10043M	RNA, Human Influenza A virus Subtype H1
TKIT10044	TKIT10044M	RNA, H1N1 influenza
TKIT10045	TKIT10045M	RNA, Human Influenza A virus Subtype H3
TKIT10046	TKIT10046M	DNA, Human Bocavirus genomes
TKIT10047	TKIT10047M	DNA, Hepatitis B virus
TKIT10048	TKIT10048M	RNA, Coronavirus 2012 genomes
TKIT10049	TKIT10049M	RNA, All Group 1 Coronavirus genomes
TKIT10050	TKIT10050M	RNA, All Group 2 Coronavirus genomes
TKIT10051	TKIT10051M	RNA, Hepatitis C virus
TKIT10054	TKIT10054M	RNA, Hepatitis Delta virus
TKIT10055	TKIT10055M	RNA, Hand, foot and mouth disease
TKIT10056	TKIT10056M	DNA, Human Herpesvirus 3
TKIT10057	TKIT10057M	DNA, Human Herpesvirus 6
TKIT10058	TKIT10058M	DNA, Human Herpesvirus 6 variant A
TKIT10059	TKIT10059M	DNA, Human Herpesvirus 6 variant B
TKIT10060	TKIT10060M	DNA, Human Herpesvirus 7
TKIT10061	TKIT10061M	DNA, Human Herpesvirus 8
TKIT10062	TKIT10062M	RNA, Human Immunodeficiency virus Type 1
TKIT10063	TKIT10063M	RNA, Human Immunodeficiency virus Type 2
TKIT10064	TKIT10064M	RNA, Human Metapneumovirus
TKIT10065	TKIT10065M	RNA, Human Measles virus
TKIT10066	TKIT10066M	RNA, Human Parainfluenza virus Type 1
TKIT10067	TKIT10067M	RNA, Human Parainfluenza virus Type 2

Without Mastermix	With Mastermix	Description
TKIT10068	TKIT10068M	RNA, Human Parainfluenza virus Type 3
TKIT10069	TKIT10069M	RNA, Human Parainfluenza virus Type 4A
TKIT10070	TKIT10070M	RNA, Human Parainfluenza virus Type 4B
TKIT10071	TKIT10071M	DNA, Human Papillomavirus 11
TKIT10072	TKIT10072M	DNA, Human Papillomavirus 16
TKIT10073	TKIT10073M	DNA, Human Papillomavirus 18
TKIT10074	TKIT10074M	DNA, Human Papillomavirus 31
TKIT10075	TKIT10075M	DNA, Human Papillomavirus 33
TKIT10076	TKIT10076M	DNA, Human Papillomavirus 45
TKIT10077	TKIT10077M	DNA, Human Papillomavirus 52 and 52b
TKIT10078	TKIT10078M	DNA, Human Papillomavirus 58
TKIT10079	TKIT10079M	DNA, Human Papillomavirus 6
TKIT10080	TKIT10080M	DNA, Human Parvovirus B19
TKIT10081	TKIT10081M	DNA, Human polyomavirus 12
TKIT10082	TKIT10082M	DNA, Human Polyomavirus 6
TKIT10083	TKIT10083M	DNA, Human Polyomavirus 7
TKIT10084	TKIT10084M	DNA, Human Polyomavirus 9
TKIT10085	TKIT10085M	RNA, Human Rhinovirus Subtype 14
TKIT10086	TKIT10086M	RNA, Human Rhinovirus Subtype 16
TKIT10087	TKIT10087M	RNA, Human Rhinovirus Subtype 1B
TKIT10088	TKIT10088M	RNA, Human Rhinovirus Subtype 29
TKIT10089	TKIT10089M	RNA, Human Rhinovirus Subtype 9
TKIT10090	TKIT10090M	RNA, Human Rhinovirus All subtypes (generic)
TKIT10091	TKIT10091M	DNA, Herpes simplex Type 1 (HHV1)
TKIT10092	TKIT10092M	DNA, Herpes simplex Type 1 and 2 (HHV1&2)
TKIT10093	TKIT10093M	DNA, Herpes simplex Type 2 (HHV2)
TKIT10094	TKIT10094M	RNA, Human T-lymphotropic virus Type I
TKIT10095	TKIT10095M	RNA, Human T-lymphotropic virus Type 2
TKIT10096	TKIT10096M	DNA, Klebsiella oxytoca
TKIT10097	TKIT10097M	DNA, Klebsiella pneumoniae
TKIT10098	TKIT10098M	DNA, KI polyomavirus
TKIT10099	TKIT10099M	DNA, Leishmania infantum and donovani
TKIT10100	TKIT10100M	DNA, Legionella longbeachae
TKIT10101	TKIT10101M	DNA, Leishmania major
TKIT10102	TKIT10102M	DNA, Legionella pneumophila
TKIT10103	TKIT10103M	DNA, Leishmania tropica
TKIT10104	TKIT10104M	DNA, Lactobacillus genus
TKIT10105	TKIT10105M	DNA, All Leishmania species
TKIT10106	TKIT10106M	DNA, Mycobacterium leprae lepromatosis
TKIT10107	TKIT10107M	DNA, Lyme disease
TKIT10108	TKIT10108M	DNA, Moraxella catarrhalis
TKIT10109	TKIT10109M	DNA, Mycoplasma genitalium
TKIT10110	TKIT10110M	DNA, Mycoplasma hominis
TKIT10111	TKIT10111M	DNA, Mycobacterium marinum and ulcerans
TKIT10112	TKIT10112M	DNA, Mycoplasma pneumoniae
TKIT10113	TKIT10113M	DNA, Mycobacterium tuberculosis complex
TKIT10114	TKIT10114M	DNA, Merkel cell polyomavirus
TKIT10115	TKIT10115M	DNA, Methicillin-resistant Staphylococcus aureus
TKIT10116	TKIT10116M	DNA, Methicillin-resistant S.aureus with SCC mec
TKIT10117	TKIT10117M	DNA, Methicillin-resistant S.aureus with SCC mec
TKIT10118	TKIT10118M	RNA, Mumps virus
TKIT10119	TKIT10119M	DNA, Neisseria gonorrhoeae
TKIT10120	TKIT10120M	DNA, All Neisseria meningitidis
TKIT10121	TKIT10121M	DNA, Oxalobacter formigenes
TKIT10122	TKIT10122M	DNA, Plasmodium falciparum
TKIT10123	TKIT10123M	DNA, Porphyromonas gingivalis
TKIT10124	TKIT10124M	DNA, Prevotella intermedia
TKIT10125	TKIT10125M	DNA, Pneumocystis jirovecii
TKIT10126	TKIT10126M	DNA, Plasmodium knowlesi
TKIT10127	TKIT10127M	DNA, Plasmodium malariae
TKIT10128	TKIT10128M	DNA, Proteus mirabilis
TKIT10129	TKIT10129M	DNA, Plasmodium ovale
TKIT10130	TKIT10130M	DNA, Plasmodium vivax
TKIT10131	TKIT10131M	DNA, All Plasmodium species
TKIT10132	TKIT10132M	DNA, Rickettsia (All species)
TKIT10133	TKIT10133M	RNA, Respiratory Syncytial virus
TKIT10134	TKIT10134M	RNA, Respiratory Syncytial virus A
TKIT10135	TKIT10135M	RNA, Respiratory Syncytial virus B
TKIT10136	TKIT10136M	RNA, Rubella virus
TKIT10137	TKIT10137M	DNA, Staphylococcus epidermidis
TKIT10138	TKIT10138M	DNA, Staphylococcus haemolyticus
TKIT10139	TKIT10139M	DNA, Serratia marcescens
TKIT10140	TKIT10140M	DNA, Streptococcus mutans
TKIT10141	TKIT10141M	RNA, Sandfly Fever Sicilian virus
TKIT10142	TKIT10142M	RNA, Sin Nombre virus
TKIT10143	TKIT10143M	DNA, Saint Louis Polyomavirus
TKIT10144	TKIT10144M	DNA, Simian virus 40
TKIT10145	TKIT10145M	DNA, Trypanosoma cruzi
TKIT10146	TKIT10146M	DNA, Treponema denticola
TKIT10147	TKIT10147M	DNA, Tannerella forsythia
TKIT10148	TKIT10148M	DNA, Tsukamurella inchonensis
TKIT10149	TKIT10149M	DNA, Treponema pallidum
TKIT10150	TKIT10150M	DNA, Trichomonas vaginalis
TKIT10151	TKIT10151M	DNA, Mycobacterium Tuberculosis
TKIT10152	TKIT10152M	RNA, Tick-borne Encephalitis virus
TKIT10153	TKIT10153M	DNA, Trichodysplasia spinulosa polyomavirus
TKIT10154	TKIT10154M	DNA, Ureaplasma urealyticum
TKIT10155	TKIT10155M	DNA, WU polyomavirus
TKIT10156	TKIT10156M	RNA, Yellow Fever virus
TKIT11001	TKIT11001M	DNA, Burkholderia mallei
TKIT11002	TKIT11002M	DNA, Blastocystis genus (All species)
TKIT11003	TKIT11003M	DNA, Ancylostoma duodenale
TKIT11004	TKIT11004M	DNA, African Trypanosomiasis
TKIT11005	TKIT11005M	DNA, Aspergillus fumigatus
TKIT11006	TKIT11006M	DNA, Aeromonas hydrophila
TKIT11007	TKIT11007M	DNA, Anaplasma phagocytophilum
TKIT11008	TKIT11008M	DNA, Aspergillus
TKIT11009	TKIT11009M	DNA, Bartonella henselae
TKIT11010	TKIT11010M	DNA, Burkholderia pseudomallei
TKIT11011	TKIT11011M	DNA, Chlamydophila abortus
TKIT11012	TKIT11012M	DNA, Campylobacter fetus
TKIT11013	TKIT11013M	DNA, Campylobacter fetus subspecies venerialis
TKIT11014	TKIT11014M	DNA, Chlamydiaceae (All species)
TKIT11015	TKIT11015M	DNA, Cryptococcus neoformans
TKIT11016	TKIT11016M	DNA, Chlamydophila pneumoniae
TKIT11017	TKIT11017M	DNA, Chlamydophila psittaci
TKIT11018	TKIT11018M	DNA, Cryptosporidium
TKIT11019	TKIT11019M	DNA, Clostridium tetani
TKIT11020	TKIT11020M	RNA, Dobrava-Belgrade virus
TKIT11021	TKIT11021M	DNA, Enterocytozoon bieneusi
TKIT11022	TKIT11022M	DNA, All Encephalitozoon species
TKIT11023	TKIT11023M	DNA, Geosmithia argillacea
TKIT11024	TKIT11024M	RNA, H10N8
TKIT11025	TKIT11025M	RNA, Bird flu
TKIT11026	TKIT11026M	RNA, Avian Influenza A virus Subtype H7N9
TKIT11027	TKIT11027M	DNA, Leptospirosis
TKIT11028	TKIT11028M	DNA, Mycoplasma species
TKIT11029	TKIT11029M	DNA, Pasteurella multocida
TKIT11030	TKIT11030M	RNA, Rabies virus
TKIT11031	TKIT11031M	RNA, Rotavirus A
TKIT11032	TKIT11032M	RNA, Rotavirus B
TKIT11033	TKIT11033M	RNA, Rotavirus C
TKIT11034	TKIT11034M	DNA, Streptococcus agalactiae
TKIT11035	TKIT11035M	RNA, SARS coronavirus
TKIT11036	TKIT11036M	DNA, Streptococcus mitis
TKIT11037	TKIT11037M	DNA, Streptococcus oralis
TKIT11038	TKIT11038M	DNA, Streptococcus pneumoniae
TKIT11039	TKIT11039M	DNA, Streptococcus pyogenes
TKIT11040	TKIT11040M	DNA, Streptococcus salivarius
TKIT11041	TKIT11041M	DNA, Streptococcus sanguinis
TKIT11042	TKIT11042M	DNA, Toxoplasma gondii
TKIT11043	TKIT11043M	RNA, Wesselsbron virus
TKIT11044	TKIT11044M	DNA, Mycobacterium avium

Food and water

qPCR is the fastest and most accurate way to screen water and food for pathogens. Prime Pro qPCR reagents also facilitate speciation and allergen detection.

- Speciation of meat and fish
- Pathogen contamination
- Allergen detection
- GMO detection/quantification

Labelling of genetically modified organisms is now mandatory in many regions, including the European Union. To guarantee consumer choice between GM and non-GM products, screening of samples is performed by PCR amplification of regulatory sequences frequently introduced into genetically modified organisms. Cauliflower mosaic virus is commonly used as a means of GM detection

Without Mastermix	With Mastermix	Description
TKIT06001	TKIT06001M	DNA, Bifidobacterium longum
TKIT06002	TKIT06002M	DNA, Clostridium estertheticum
TKIT06003	TKIT06003M	DNA, Dekkera bruxellensis
TKIT06004	TKIT06004M	DNA, Bacteria Domain
TKIT06005	TKIT06005M	DNA, FMV 35S promoter in GM crops
TKIT06006	TKIT06006M	DNA, GMO integration event Bt11 in Maize
TKIT06007	TKIT06007M	DNA, GMO integration event Bt176 in Maize
TKIT06008	TKIT06008M	DNA, GMO integration event MON810 in Maize
TKIT06009	TKIT06009M	DNA, GMO integration event NK603 in Maize
TKIT06010	TKIT06010M	DNA, CaMV 35S promoter and NOS terminator in GM Maize
TKIT06011	TKIT06011M	DNA, CaMV 35S promoter in GM crops
TKIT06012	TKIT06012M	DNA, CaMV 35S promoter and NOS terminator GMSoya
TKIT06013	TKIT06013M	DNA, GMO integration event GTS 40-30-2 Round up Ready Soya
TKIT06014	TKIT06014M	DNA, NOS terminator in GM crops
TKIT06015	TKIT06015M	DNA, Lactobacillus plantarum
TKIT06018	TKIT06018M	DNA, Apium graveolens var. dulce (Celery)
TKIT06019	TKIT06019M	DNA, Arachis hypogaea (peanut)
TKIT06020	TKIT06020M	DNA, Anacardium occidentale (cashew)
TKIT06021	TKIT06021M	DNA, Anas platyrhynchos (duck)
TKIT06022	TKIT06022M	DNA, Bubalus bubalis (buffalo)
TKIT06023	TKIT06023M	DNA, Bertholletia excelsa (Brazil nut)
TKIT06024	TKIT06024M	DNA, Bos taurus (bovine/beef)
TKIT06025	TKIT06025M	DNA, Corylus avellana (hazelnut)
TKIT06026	TKIT06026M	DNA, Capreolus capreolus (deer)
TKIT06027	TKIT06027M	DNA, Canis familiaris (dog)
TKIT06028	TKIT06028M	DNA, Capra hircus (goat)
TKIT06029	TKIT06029M	DNA, Carya illinoinensis (pecan)
TKIT06030	TKIT06030M	DNA, Equus asinus (donkey)
TKIT06031	TKIT06031M	DNA, Equus caballus (horse)
TKIT06032	TKIT06032M	DNA, Felis catus (cat)
TKIT06033	TKIT06033M	DNA, Gallus gallus (chicken)
TKIT06035	TKIT06035M	DNA, Gadus morhua (cod)
TKIT06036	TKIT06036M	DNA, Juglans regia (walnut)
TKIT06037	TKIT06037M	DNA, Melanogrammus aeglefinus (haddock)
TKIT06038	TKIT06038M	DNA, Meleagris gallopavo (turkey)
TKIT06039	TKIT06039M	DNA, Macadamia integrifolia (Macadamia)
TKIT06040	TKIT06040M	DNA, Merlangius merlangus (whiting)
TKIT06041	TKIT06041M	DNA, Mus musculus (mouse)
TKIT06042	TKIT06042M	DNA, Ovis aries (sheep)
TKIT06043	TKIT06043M	DNA, Phacochoerus africanus (warthog)
TKIT06044	TKIT06044M	DNA, Prunus dulcis (almond)
TKIT06045	TKIT06045M	DNA, Pleuronectes platessa (european plaice)
TKIT06046	TKIT06046M	DNA, Pisum Satvium (green pea)

Without Mastermix	With Mastermix	Description
TKIT06047	TKIT06047M	DNA, Pistacia vera (pistacio)
TKIT06048	TKIT06048M	DNA, Pollachius virens (pollock)
TKIT06049	TKIT06049M	DNA, Struthio camelus (ostrich)
TKIT06050	TKIT06050M	DNA, Sus scrofa (pig/pork)
TKIT06051	TKIT06051M	DNA, Universal fish detection
TKIT06052	TKIT06052M	DNA, Universal meat detection
TKIT07001	TKIT07001M	DNA, Bifidobacterium bifidum
TKIT07002	TKIT07002M	DNA, Bacillus cereus E33
TKIT07003	TKIT07003M	DNA, Brucella genus (All species)
TKIT07004	TKIT07004M	DNA, All Clostridium perfringens species
TKIT07005	TKIT07005M	DNA, Clostridium perfringens Types A&B
TKIT07006	TKIT07006M	DNA, Enterococcus faecalis
TKIT07007	TKIT07007M	DNA, Enterococcus faecium
TKIT07008	TKIT07008M	RNA, Hepatitis A virus
TKIT07009	TKIT07009M	RNA, Hepatitis E virus
TKIT07010	TKIT07010M	DNA, JC virus
TKIT07012	TKIT07012M	DNA, All Legionella species
TKIT07014	TKIT07014M	DNA, All Naegleria species
TKIT07015	TKIT07015M	RNA, Norovirus genotypes 1 and 2
TKIT07016	TKIT07016M	DNA, Pseudomonas aeruginosa
TKIT07017	TKIT07017M	DNA, Simkania negevensis
TKIT07018	TKIT07018M	DNA, Shigella (All species)
TKIT07019	TKIT07019M	DNA, All Vibrio cholerae subspecies
TKIT07020	TKIT07020M	DNA, All Vibrio species
TKIT08001	TKIT08001M	DNA, Brucella abortus
TKIT08002	TKIT08002M	DNA, Coxiella burnetii
TKIT08003	TKIT08003M	DNA, Cyclospora cayetanensis
TKIT08004	TKIT08004M	DNA, Campylobacter Coli
TKIT08005	TKIT08005M	DNA, Campylobacter Jejuni
TKIT08006	TKIT08006M	RNA, Crimean-Congo Haemorrhagic Fever virus
TKIT08007	TKIT08007M	DNA, Escherichia coli 0157:H7
TKIT08008	TKIT08008M	DNA, Escherichia coli
TKIT08009	TKIT08009M	DNA, Escherichia coli O104:H4
TKIT08010	TKIT08010M	DNA, Shiga toxin (stx1) producing Escherichia coli
TKIT08011	TKIT08011M	DNA, Shiga toxin (stx2b) producing Escherichia coli
TKIT08012	TKIT08012M	DNA, Tellurite resistant Escherichia coli
TKIT08013	TKIT08013M	DNA, Enteropathogenic Escherichia coli
TKIT08014	TKIT08014M	DNA, Francisella tularensis
TKIT08015	TKIT08015M	DNA, Giardia intestinalis
TKIT08016	TKIT08016M	DNA, Listeria monocytogenes
TKIT08017	TKIT08017M	DNA, Mycobacterium avium subspecies paratuberculosis
TKIT08018	TKIT08018M	DNA, Salmonella enterica
TKIT09001	TKIT09001M	DNA, Shewanella putrefaciens

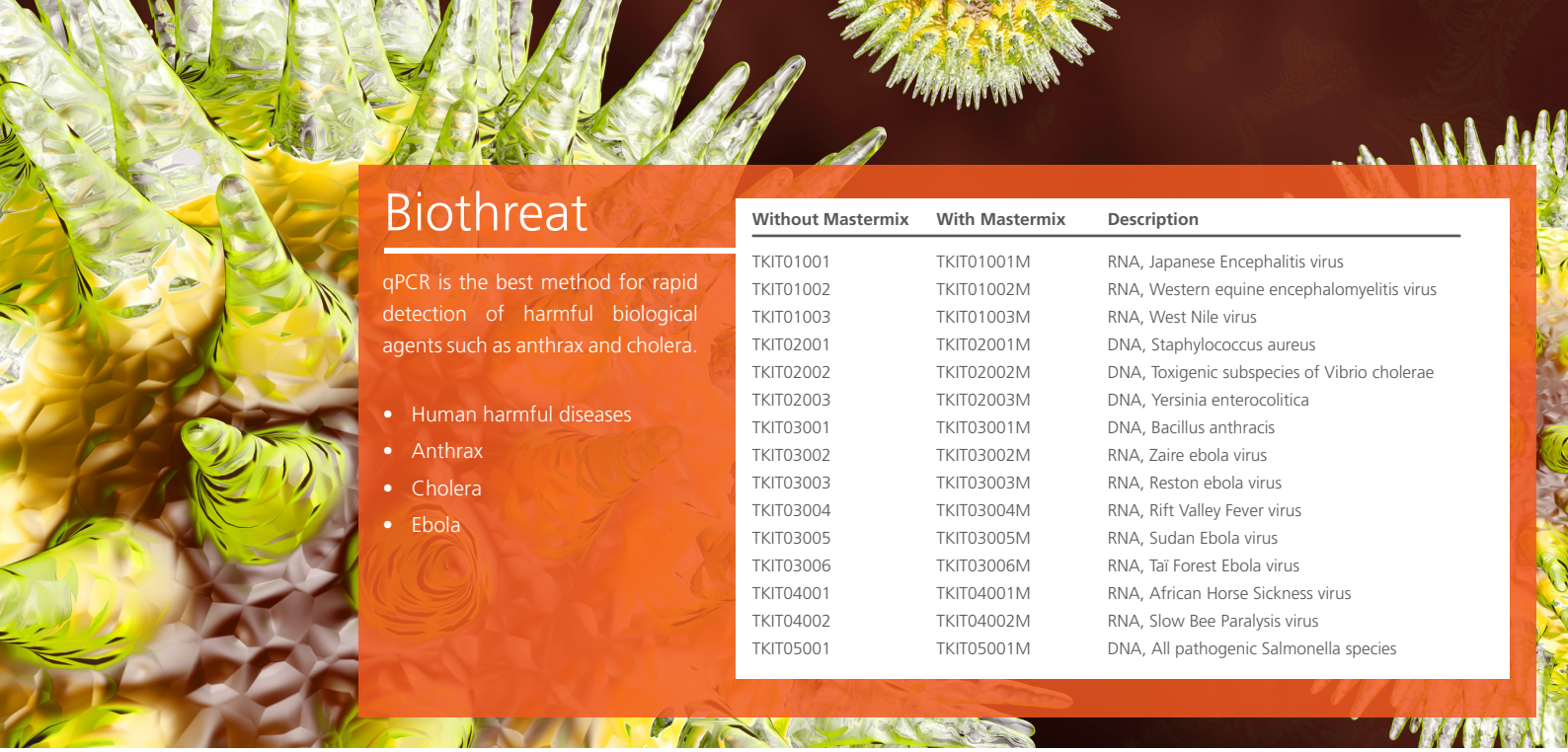
Veterinary and Agriculture

Veterinary and agriculture kits are a fast growing part of the Prime Pro qPCR reagent range, currently addressing many challenges in the environment.

- Avian
- Bovine
- Ovine/Caprine
- Equine
- Feline
- Canine
- Porcine
- Piscean

Without Mastermix	With Mastermix	Description
TKIT12001	TKIT12001M	DNA, Anaplasma centrale
TKIT12002	TKIT12002M	DNA, Aleutian Disease virus
TKIT12003	TKIT12003M	DNA, Anaplasma marginale
TKIT12004	TKIT12004M	RNA, Avian orthoreovirus
TKIT12005	TKIT12005M	DNA, Budgerigar Fledgling Disease virus (avian polyomavirus)
TKIT12006	TKIT12006M	DNA, Babesia bigemina
TKIT12007	TKIT12007M	DNA, Babesia bovis
TKIT12008	TKIT12008M	DNA, Bordetella Bronchiseptica and Bordetella Parapertussis
TKIT12009	TKIT12009M	DNA, Babesia caballi
TKIT12010	TKIT12010M	DNA, Botrytis cinerea
TKIT12011	TKIT12011M	RNA, Bovine Viral Diarrhoea virus
TKIT12012	TKIT12012M	DNA, Batrachochytrium dendrobatidis
TKIT12013	TKIT12013M	DNA, Babesia divergens
TKIT12014	TKIT12014M	DNA, Beak and Feather Disease virus
TKIT12015	TKIT12015M	DNA, Bovine herpesvirus 1
TKIT12016	TKIT12016M	RNA, Bovine Leukemia virus
TKIT12017	TKIT12017M	RNA, Bluetongue virus
TKIT12018	TKIT12018M	RNA, Bluetongue virus 1
TKIT12019	TKIT12019M	RNA, Bluetongue virus 8
TKIT12020	TKIT12020M	RNA, Bovine Viral Diarrhoea virus
TKIT12021	TKIT12021M	DNA, Canine Babesiosis
TKIT12022	TKIT12022M	DNA, Capripoxvirus
TKIT12023	KIT12023M	DNA, Chicken anemia virus
TKIT12024	TKIT12024M	RNA, Canine Distemper virus
TKIT12025	TKIT12025M	DNA, Chlamydophila felis
TKIT12026	TKIT12026M	DNA, Canine herpes virus
TKIT12027	TKIT12027M	DNA, Clavibacter michiganensis sub species michiganensis
TKIT12028	TKIT12028M	RNA, Canine Norovirus
TKIT12030	TKIT12030M	DNA, Columbid herpesvirus 1
TKIT12031	TKIT12031M	DNA, Cyprinid herpesvirus 3
TKIT12032	TKIT12032M	DNA, Duck Hepatitis B virus
TKIT12033	TKIT12033M	DNA, Avian adenovirus EDS76 Egg Drop Syndrome
TKIT12034	TKIT12034M	RNA, Epizootic Hemorrhagic Disease virus
TKIT12035	TKIT12035M	DNA, Equid Herpesvirus 1
TKIT12036	TKIT12036M	DNA, Equid Herpesvirus 3
TKIT12037	TKIT12037M	DNA, Equid Herpesvirus 4
TKIT12038	TKIT12038M	RNA, Equine infectious anemia virus
TKIT12039	TKIT12039M	RNA, Feline coronavirus
TKIT12040	TKIT12040M	RNA, Feline calicivirus
TKIT12041	TKIT12041M	RNA, Feline Leukemia virus
TKIT12042	TKIT12042M	DNA, Feline Herpesvirus
TKIT12043	TKIT12043M	RNA, Feline Immunodeficiency virus
TKIT12044	TKIT12044M	RNA, Foot and Mouth Disease virus
TKIT12045	TKIT12045M	DNA, Fowlpox virus
TKIT12046	TKIT12046M	DNA, Gallid herpesvirus 1
TKIT12047	TKIT12047M	DNA, Gallid herpesvirus 2
TKIT12048	KIT12048M	RNA, Grass Carp Reovirus

Without Mastermix	With Mastermix	Description
TKIT12049	TKIT12049M	RNA, Avian Influenza A virus Subtype H5
TKIT12050	TKIT12050M	RNA, Avian Influenza A virus Subtype H6
TKIT12051	TKIT12051M	RNA, Avian Influenza A virus Subtype H7
TKIT12052	TKIT12052M	RNA, Avian Influenza A virus Subtype H9
TKIT12053	TKIT12053M	RNA, Israeli Acute Paralysis virus
TKIT12054	TKIT12054M	RNA, Infectious Bursal Disease virus (IBDV)
TKIT12055	TKIT12055M	RNA, Avian Infectious Bronchitis virus (IBV)
TKIT12056	TKIT12056M	RNA, Infectious Hematopoietic Necrosis virus
TKIT12057	TKIT12057M	RNA, Infectious Pancreatic Necrosis virus
TKIT12058	TKIT12058M	DNA, Mycoplasma bovis
TKIT12059	TKIT12059M	DNA, Microsporum canis
TKIT12060	TKIT12060M	RNA, Maize chlorotic mottle virus
TKIT12061	TKIT12061M	RNA, Maize Dwarf Mosaic virus
TKIT12062	TKIT12062M	DNA, Mycoplasma felis
TKIT12063	TKIT12063M	DNA, Mycoplasma gallisepticum
TKIT12064	TKIT12064M	DNA, Microsporum gypseum
TKIT12065	TKIT12065M	DNA, Mycoplasma haemofelis
TKIT12066	TKIT12066M	DNA, Mycoplasma species haemofelis and haemocanis
TKIT12067	TKIT12067M	DNA, Mycoplasma mycoides cluster
TKIT12068	TKIT12068M	DNA, Neospora caninum
TKIT12069	TKIT12069M	RNA, Newcastle disease virus
TKIT12070	TKIT12070M	DNA, Orf virus (Contagious pustular dermatitis)
TKIT12071	TKIT12071M	DNA, Ornithobacterium rhinotracheale
TKIT12072	TKIT12072M	DNA, Porcine circovirus 2
TKIT12073	TKIT12073M	RNA, Peste-des-petits-ruminants virus
TKIT12074	TKIT12074M	RNA, Porcine Reproductive and Respiratory Syndrome
TKIT12075	TKIT12075M	RNA, Sugarcane Mosaic virus
TKIT12076	TKIT12076M	DNA, Sheep Poxvirus
TKIT12077	TKIT12077M	RNA, Spring Viremia of Carp virus
TKIT12078	TKIT12078M	DNA, Theileria annulata
TKIT12079	TKIT12079M	DNA, Theileria equi
TKIT12080	TKIT12080M	DNA, Trypanosoma equiperdum
TKIT12081	TKIT12081M	DNA, Trypanosoma evansi
TKIT12082	TKIT12082M	DNA, Tritrichomonas foetus
TKIT12083	TKIT12083M	DNA, Trichophyton mentagrophytes
TKIT12084	TKIT12084M	DNA, Theileria mutans
TKIT12085	TKIT12085M	DNA, Theileria parva
TKIT12086	TKIT12086M	RNA, Vesivirus2117
TKIT12087	TKIT12087M	RNA, Viral Hemorrhagic Septicemia virus
TKIT12088	TKIT12088M	DNA, Porcine circovirus 1
TKIT12089	TKIT12089M	DNA, Camelpox virus
TKIT12090	TKIT12090M	RNA, Canine parainfluenza virus
TKIT12091	TKIT12091M	DNA, All Fusarium species
TKIT12092	TKIT12092M	DNA, Mycoplasma hyopneumoniae
TKIT12093	TKIT12093M	DNA, Mycoplasma suis
TKIT12095	TKIT12095M	DNA, Strongylus vulgaris
TKIT12096	TKIT12096M	DNA, Vaccinia virus



Biothreat

qPCR is the best method for rapid detection of harmful biological agents such as anthrax and cholera.

- Human harmful diseases
- Anthrax
- Cholera
- Ebola

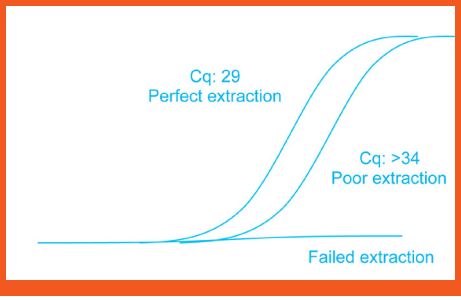
Without Mastermix	With Mastermix	Description
TKIT01001	TKIT01001M	RNA, Japanese Encephalitis virus
TKIT01002	TKIT01002M	RNA, Western equine encephalomyelitis virus
TKIT01003	TKIT01003M	RNA, West Nile virus
TKIT02001	TKIT02001M	DNA, Staphylococcus aureus
TKIT02002	TKIT02002M	DNA, Toxigenic subspecies of Vibrio cholerae
TKIT02003	TKIT02003M	DNA, Yersinia enterocolitica
TKIT03001	TKIT03001M	DNA, Bacillus anthracis
TKIT03002	TKIT03002M	RNA, Zaire ebola virus
TKIT03003	TKIT03003M	RNA, Reston ebola virus
TKIT03004	TKIT03004M	RNA, Rift Valley Fever virus
TKIT03005	TKIT03005M	RNA, Sudan Ebola virus
TKIT03006	TKIT03006M	RNA, Taï Forest Ebola virus
TKIT04001	TKIT04001M	RNA, African Horse Sickness virus
TKIT04002	TKIT04002M	RNA, Slow Bee Paralysis virus
TKIT05001	TKIT05001M	DNA, All pathogenic Salmonella species

High sensitivity

Primers and probes provide highly specific, easy to interpret test results with sensitivity down to 10 copies.

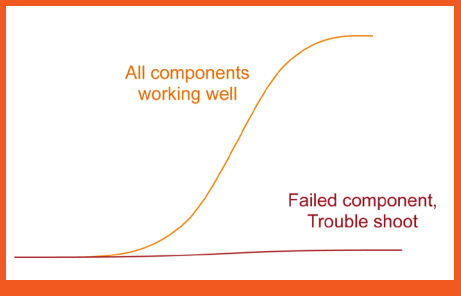
Internal control

Internal extraction control confirms that the DNA extraction process was successful. Exogenous DNA is spiked into the lysis buffer.



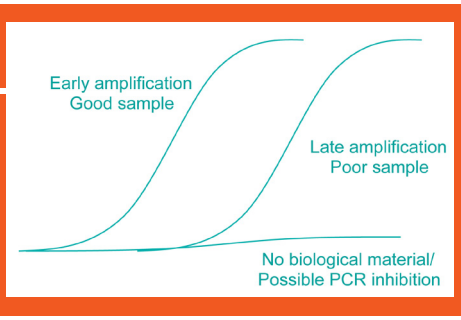
Positive control

Positive control confirms all conditions and reagents are working well. A high-concentration standard is used as positive control.



Endogenous control

- Endogenous control confirms quality of biological sample.
- Beta-actin confirms that a valid biological template was extracted.
- A primer and probe mix is included to detect Beta-actin through the VIC channel.
- Poor Beta-actin signal may indicate the sample did not contain sufficient biological material.



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