

# On-site animal disease detection for pathogen early warning in livestock farm

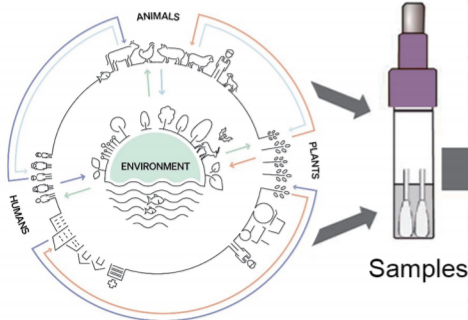
\* For scientific research only, not for clinical use

*An alternative way to get the pathogen detection result  
when vet lab is too far away*

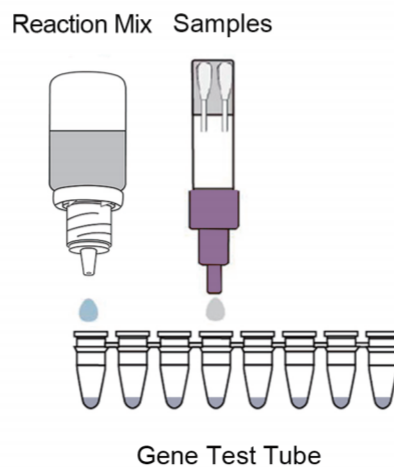


- ▶ Thousand US dollars cost
- ▶ Golden standard real-time PCR technology
- ▶ Nonprofessional user friendly
- ▶ Get the result around one hour
- ▶ Over hundreds pathogen detection reagents available

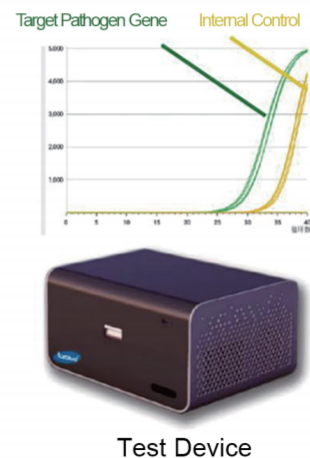
## 1. Sampling



## 2. Reagents preparing



## 3. Testing



**Sample:** Swabs-animal oral or nasal fluid, Tissue or organ, Whole blood, Swabs-environmental or fecal, Gauze-environmental samples

# TOROIVD® Gene Test Tube List

Swine		Cattle and Sheep		Pets		Poultry	
Target Pathogen	Sequence No.	Target Pathogen	Sequence No.	Target Pathogen	Sequence No.	Target Pathogen	Sequence No.
African swine fever virus	8002R	Bovine herpesvirus 1 (Infectious bovine rhinotracheitis)	8043	A. laidlawii, M. fermentans, M. hyorhinis, M. oral, M. arginini, M. pneumonia, M. gallisepticum, M. synoviae, Spiroplasma citri	8200	Influenza A virus	8193
Porcine reproductive and respiratory syndrome virus type 2	8010	Mycobacterium bovis (Bovine tuberculosis)	8039	Bordetella bronchiseptica	8128	Highly pathogenic avian influenza	8058
Porcine epidemic diarrhoea virus	8014	Bovine viral diarrhoea mucosal disease virus	8041	Bordetella Bronchiseptica	8153	Avian influenza H5 subtype	8059
Influenza A virus of swine	8019	Bovine viral diarrhoea virus1	8189	Influenza A virus	8193	Avian influenza H7 subtype	8060
Transmissible gastroenteritis virus	8016	Bovine viral diarrhoea virus2	8190	Canine influenza virus H3N8	8100	Avian influenza H9 subtype	8061
Classical swine fever virus	8018	Bovine viral diarrhoea virus3	8191	Canine influenza virus H3N2	8101	Avian influenza N9 subtype	8062
Porcine circovirus type 2	8011	Bovine leukemia virus (Enzootic bovine leukosis)	8047	Canine distemper virus	8103	Avian influenza H3 subtype	8093
Porcine circovirus type 3	8012	Mycoplasma mycoides subsp. mycoides SC (contagious bovine pleuropneumonia)	8166	Canine parainfluenza virus type 5	8098	Avian Paramyxovirus type 1 (Newcastle disease)	8063
Haemophilus parasuis	8026	Bovine cysticercosis	8139	Canine adenovirus type 1	8095	Infectious bronchitis virus	8064
Streptococcus suis	8029	Pasteurella multocida B (Haemorrhagic septicaemia)	8150	Canine adenovirus type 2	8096	gallid alphaherpesvirus 1 (Infectious laryngotracheitis)	8070
Erysipelothrix rhusiopathiae (Swine erysipelas)	8035	Pasteurella multocida E (Haemorrhagic septicaemia)	8151	Canine herpesvirus	8094	Infectious bursal disease virus (Gumboro disease)	8067
Porcine Parvovirus	8023	Bovine parainfluenza virus Type 3	8048	Feline calicivirus	8118	Mycoplasma Synoviae	8069
Porcine rotavirus	8015	Mycoplasma bovis	8135	Feline herpesvirus	8120	Mycoplasma gallisepticum	8068
Porcine delta corona virus	8020	Bovine rotavirus	8044	Mycoplasma felis	8114	Mycoplasma E. coli	8142
Swine vesicular disease virus	8021	Bovine coronavirus	8045	Chlamydia felis	8115	Avian leukemia virus	8066
Actinobacillus pleuropneumoniae	8024	Bovine epidemic fever virus	8046	Giardia lamblia (Giardia duodenalis)	8133	Egg drop syndrome virus	8177
Mycoplasma pneumoniae of swine	8025	Bovine Adenovirus Type 3	8162	Canine parvovirus	8097	Avian pox virus (Fowl pox virus)	8175
Lawsonia Intracellularis (porcine proliferative enteropathy)	8027	Bovine Adenovirus Type 7	8163	Canine coronavirus	8102	Avian Hepatitis E Virus	8146
Lawsonia Intracellularis (porcine proliferative enteropathy)	8155	Bovine respiratory syncytial virus	8164	Feline parvovirus	8121	Fowl adenovirus 11	8141
Seneca virus type A	8034	Bovine parvovirus	8170	feline coronavirus	8116	Fowl adenovirus 8b	8140
Seneca virus type A	8056	Capripox virus	8050	Tritrichomonas foetus	8124	Fowl adenovirus type IV	8073
Brachyspira hyodysenteriae	8036	Goat pox virus	8051	Borrelia burgdorferi (Lyme disease)	8130	Avian reticuloendothelial hyperplasia virus	8082
Atypical porcine pestivirus	8159	Sheep pox virus	8052	Dirofilaria immitis (Heartworm)	8110	Avian reovirus	8081
Torque teno sus virus 1a	8156	Caprine arthritis / encephalitis virus	8053	Babesia gibsoni	8104	Avian metapneumovirus Type C	8171
Torque teno sus virus k2	8157	peste des petits ruminants virus	8054	Babesia canis	8105	Avian pneumovirus	8172
Torque teno sus virus k2b	8158	Chlamydia abortus (Ovine chlamydiosis)	8057	Ehrlichia canis	8109	Ornithobacterium rhinotracheale	8176
Swine salmonellosis (Swine paratyphoid / enteritis)	8028	Mycoplasma ovipneumoniae	8136	Anaplasma platys	8108	Pasteurella multocida	8173
Mammalian reovirus	8152	Akabane virus (Akabane disease)	8168	Leishmania canis	8107	Pasteurella multocida	8134
Toxoplasma gondii	8030	Orf virus	8055	Feline immunodeficiency virus	8117	Bordetella Bronchiseptica	8153
Toxoplasma gondii	8127	B. abortus / B. melitensis (Brucella, Brucellosis)	8038	Feline leukemia virus	8119	Enterohemorrhagic E. coli	8160
Chlamydia psittaci	8031	Foot-and-mouth disease virus	8022	Ohio type feline hemophilic mycoplasma	8111	Salmonella	8161
Eperythrozoon	8032	Foot-and-mouth disease virus	8037	Zurich type Mycoplasma felis	8112	Salmonella Typhimurium	8145
L. interrogans (Leptospirosis)	8033	Bluetongue virus	8042	California type Mycoplasma felis	8113	Salmonella Enteritidis	8144
Pasteurella multocida	8173	Mycobacterium avium subsp. paratuberculosis (Paratuberculosis)	8165	Bartonella henselae (cat scratch disease)	8122	Salmonella Gallinarum (Fowl typhoid)	8143
Pasteurella multocida	8134	West Nile virus (West Nile fever)	8167	Cytauxzoon felis	8123	Salmonella enterica subsp. (S Gallinarum / S Pullorum)	8174
Salmonella	8161	Rabies virus	8169	Brucella canis	8099	Chicken infectious anemia virus	8074
Suid herpesvirus 1 (Aujeszky's disease, Pseudorabies virus)	8013	Rabies virus	8129	Echinococcus canadensis	8132	marek's disease virus	8065
Suid herpesvirus 2 (Aujeszky's disease, Pseudorabies virus)	8125	Pasteurella multocida	8173	Mammalian reovirus	8152	Duck circovirus	8089
Japanese encephalitis virus (Swine encephalitis B)	8017	Pasteurella multocida	8134	Toxoplasma gondii	8030	Muscovy duck parvovirus	8086
Foot-and-mouth disease virus	8022	Pasteurella multocida A (BRD)	8149	Toxoplasma gondii	8127	Duck parvovirus disease	8090
Foot-and-mouth disease virus	8037	Fasciola hepatica	8137	Neospora caninum	8106	Duck plague virus	8087
Getah Virus	8154	Fasciola gigantica	8138	Rabies virus	8169	Duck hepatitis virus type I	8071
Enterohemorrhagic E. coli	8160	Vesicular stomatitis virus	8040	Rabies virus	8129	Duck hepatitis virus type III	8072
Bordetella Bronchiseptica	8153	Parainfluenza virus 5	8049	Suid herpesvirus 1 (Aujeszky's disease, Pseudorabies virus)	8013	Novel duck reovirus	8083
A. laidlawii, M. fermentans, M. hyorhinis, M. oral, M. arginini, M. pneumonia, M. gallisepticum, M. synoviae, Spiroplasma citri	8200	Neospora caninum	8106	Suid herpesvirus 2 (Aujeszky's disease, Pseudorabies virus)	8125	Muscovy duck reovirus	8084
		Staphylococcus aureus	8131	L. interrogans (Leptospirosis)	8033	Duck Tambusu virus	8085
				Enterohemorrhagic E. coli	8160	Duck astrovirus	8088
				Staphylococcus aureus	8131	Riemerella anatipestifer	8092
						Duck adenovirus type 3	8147
						Duck paramyxovirus	8148
						Goose calicivirus	8075
						Goose paramyxovirus	8076
						Goose Tambusu virus	8077
						Goose parvovirus	8078
						Goose stellate virus	8079
						Goose circovirus	8080
						Goose adenovirus	8091

TOROIVD TECHNOLOGY COMPANY LIMITED.

Head Office: Building #C1, 880 Jiang Yang Nan Road, Baoshan, Shanghai, China. 200439

JiangShu Factory: Building #20, 888 Zhujiang Road, Life and Health Industrial Park, Rudong, Jiangshu, China. 226400

Tel: +86-21-68030217 Email: market@toroivd.com Website: www.toroivd.com