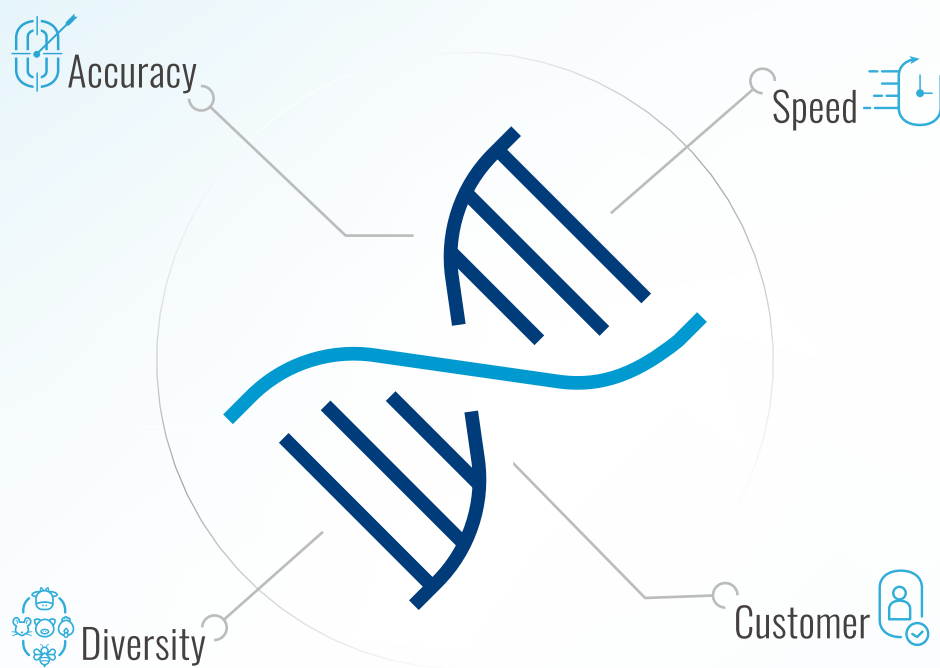




Animal Molecular Diagnostic System

From Nucleic Acid Extraction to Detection
Total Solutions for Molecular Diagnostics

OPTIPHARM

OPTIPHARM

|주| 옵티팜
충청북도 청주시 흥덕구 오송읍
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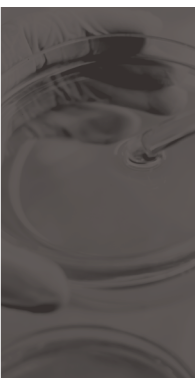
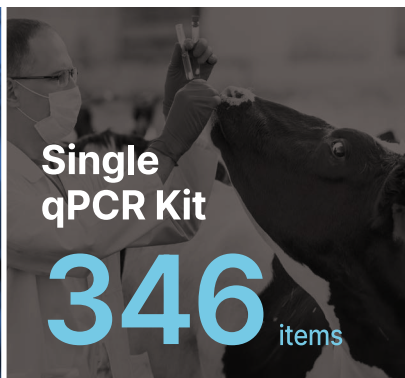
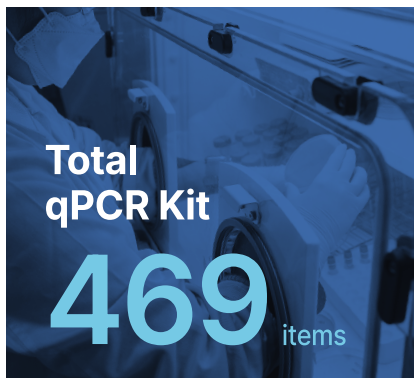
optipharm.co.kr

About Us

OPTIPHARM

realize healthy & happy companionship
between Human and Animals by suggesting
new standard for Bio Healthcare.

- OPTIPHARM has been certified by the Korea Animal and Plant Quarantine Agency (APQA) as a specialized institution for animal disease diagnosis centers.
- OPTIPHARM has over 70% market share in Korean industrial animal diagnostic market.
- OPTIPHARM qPCR team completed the development of excellent quality animal diagnostic kits through various diagnostic experiences.



Product Advantages



* Product package

OPTIPHARM's Diagnostic Kit achieve Accuracy, Speed, Diversity & Customer Satisfaction



Accuracy

Sensitivity >99%



Speed

Running Time
< 70min.



Diversity

Various Types



Customer

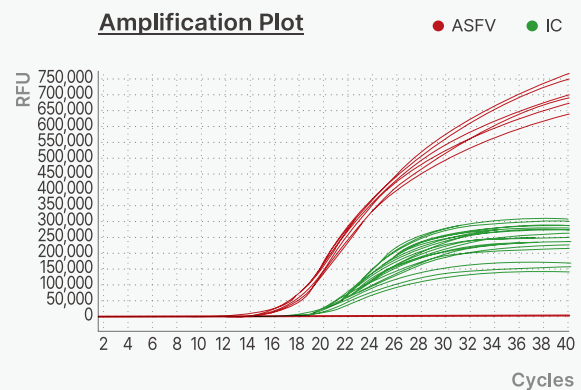
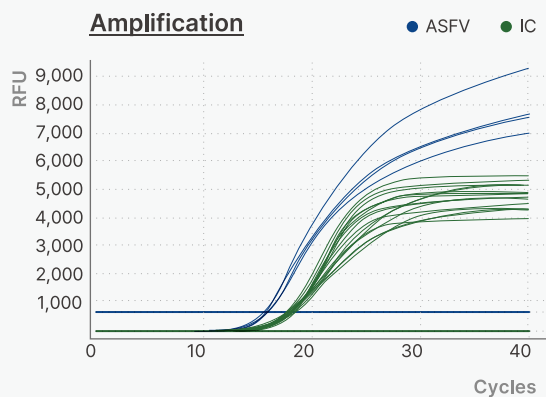
Customized Kit

Components	2X qPCR premix (qPCR Premix) Primer & Probe mix	Positive Control (PC)
Amount	8T x 12 Strips (96T)	50 µl (2Vials)

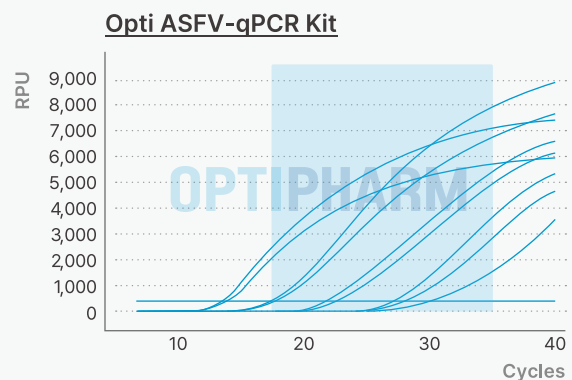
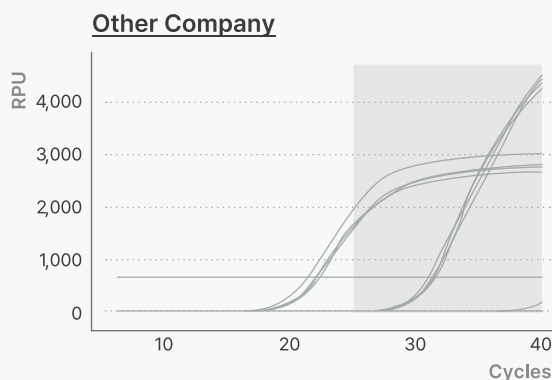
Opti ASFV-qPCR Kit (IA-01)

Specification

- Approved by Korean Animal and Plant Quarantine Agency (APQA); No. 238-002
- Opti ASFV-qPCR Kit is an *in vitro* diagnostic reagent used to diagnose pigs suspected of African Swine fever virus (ASFV) infection
- Sample : Swine Blood, Serum, Tissue etc.
- Running Time : 50 – 70 min.



qPCR Result of Opti ASFV-qPCR Kit



Opti ASFV-qPCR Kit showed the [higher sensitivity than other company kit in the same samples.](#)

So you can do [the more accurate analysis](#) because you can get results reducing false positives and false negatives.

Swine - Bacteria

* Animal and Plant Quarantine Agency (APQA) approved product
#CFS: Certificate of Free Sales product

No.	Cat. No.	Product	Description
01	SWBS-001	Opti Actinobacillus pleuropneumoniae-qPCR kit	Actinobacillus pleuropneumoniae
02	SWBS-002	Opti Actinobacillus suis-qPCR kit	Actinobacillus suis
03	SWBS-003	Opti Bordetella bronchiseptica-qPCR kit	Bordetella bronchiseptica
04	SWBS-004	Opti Brachyspira hyodysenteriae-qPCR kit	Brachyspira hyodysenteriae
05	SWBS-005	Opti Brachyspira pilosicoli-qPCR kit	Brachyspira pilosicoli
06	SWBS-006	Opti Clostridium perfringens-qPCR kit	Clostridium perfringens
07	SWBS-007	Opti Erysipelothrix rhusiopathiae-qPCR kit	Erysipelothrix rhusiopathiae
08	SWBS-008	Opti Haemophilus parasuis-qPCR kit	Haemophilus parasuis
09	SWBS-009	Opti Lawsonia intracellularis-qPCR kit	Lawsonia intracellularis
10	SWBS-010	Opti Mycoplasma hyopneumoniae-qPCR kit	Mycoplasma hyopneumoniae
11	SWBS-011	Opti Mycoplasma hyorhinis-qPCR kit	Mycoplasma hyorhinis
12	SWBS-012	Opti Mycoplasma hyosynoviae-qPCR kit	Mycoplasma hyosynoviae
13	SWBS-013	Opti Mycoplasma suis-qPCR kit	Mycoplasma suis
14	SWBS-014	Opti Pasteurella multocida-qPCR kit	Pasteurella multocida
15	SWBS-015	Opti Salmonella-qPCR kit	Salmonella spp.
16	SWBS-016	Opti Streptococcus suis-qPCR kit	Streptococcus suis
17	SWBS-017	Opti Listeria monocytogenes-qPCR kit	Listeria monocytogenes
18	SWBS-018	Opti Leptospira-qPCR kit	Leptospira spp.
19	SWBS-019	Opti Actinomyces suis-qPCR kit	Actinomyces suis
20	SWBM-020	#Opti PM / HP / APP / MH Multi-qPCR kit	Pasteurella multocida / Haemophilus parasuis / Actinobacillus pleuropneumoniae / Mycoplasma hyopneumoniae
21	SWBM-021	#Opti SLBB Multi-qPCR kit	Salmonella spp. / Lawsonia intracellularis / Brachyspira hyodysenteriae / Brachyspira pilosicoli
22	SWBS-022	Opti Bacillus anthracis-qPCR kit	Bacillus anthracis
23	SWBS-023	Opti Brucella suis-qPCR kit	Brucella suis
24	SWBS-024	Opti Chlamydia-qPCR kit	Chlamydia spp.
25	SWBS-025	Opti Clostridium difficile-qPCR kit	Clostridium difficile
26	SWBS-026	Opti Coxiella burnetii-qPCR kit	Coxiella burnetii
27	SWBS-027	Opti Glaesserella australis-qPCR kit	Glaesserella australis
28	SWBS-028	Opti Legionella pneumophila-qPCR kit	Legionella pneumophila
29	SWBS-029	Opti Mannheimia haemolytica-qPCR kit	Mannheimia (Pasteurella) haemolytica
30	SWBS-030	Opti Mycobacterium-qPCR kit	Mycobacterium spp.
31	SWBS-031	Opti Nocardia-qPCR kit	Nocardia spp.
32	SWBS-032	Opti Staphylococcus hyicus-qPCR kit	Staphylococcus hyicus
33	SWBS-033	Opti Streptococcus-qPCR kit	Streptococcus spp.
34	SWBS-034	Opti Ureaplasma parvum-qPCR kit	Ureaplasma parvum
35	SWBM-035	Opti MRSA Multi-qPCR kit	Staphylococcus aureus, MecA

Animal Molecular Diagnostic Products

No.	Cat. No.	Product	Description
36	SWBM-036	Opti VRE Multi-qPCR kit	Enterococcus spp. / Vancomycin A / B
37	SWBS-037	Opti Mycoplasma-qPCR kit	Mycoplasma spp.
38	SWBS-038	Opti Staphylococcus-qPCR kit	Staphylococcus spp.
39	SWBS-039	Opti Enterococcus-qPCR kit	Enterococcus spp.
40	SWBS-040	Opti Escherichia coli-qPCR kit	Escherichia coli
41	SWBS-041	Opti Salmonella typhimurium-qPCR kit	Salmonella typhimurium
42	SWBM-042	Opti Sal-3plex Multi-qPCR kit	Salmonella spp. / S. enteritidis / S. typhimurium
43	SWBS-043	Opti Salmonella Agona-qPCR kit	Salmonella Agona
44	SWBS-044	Opti Salmonella Montevideo-qPCR kit	Salmonella Montevideo
45	SWBS-045	Opti Salmonella Kentucky-qPCR kit	Salmonella Kentucky
46	SWBS-046	Opti Salmonella Albany-qPCR kit	Salmonella Albany
47	SWBM-047	Opti CP toxin I Multi-qPCR kit	Clostridium perfringens alpha toxin (CPA) / Beta toxin (CPB) / Enterotoxin (CPE)
48	SWBS-048	Opti Helicobacter-qPCR kit	Helicobacter spp.
49	SWBS-049	Opti Klebsiella-qPCR kit	Klebsiella spp.
50	SWBS-050	Opti Psuedomonas aeruginosa-qPCR kit	Psuedomonas aeruginosa
51	SWBS-051	Opti Staphylococcus aureus-qPCR kit	Staphylococcus aureus
52	SWBS-052	Opti Streptococcus zooepidermicus-qPCR kit	Streptococcus zooepidermicus
53	SWBS-053	Opti Campylobacter jejuni-qPCR kit	Campylobacter jejuni
54	SWBS-054	Opti Campylobacter coli-qPCR kit	Campylobacter coli
55	SWBS-055	Opti Yersinia enterocolitica-qPCR kit	Yersinia enterocolitica
56	SWBM-056	Opti EHEC / Sal / Yeri Multi-qPCR kit	Enterohemorrhagic Escherichia coli (VT1, VT2) / Salmonella spp. / Yersinia enterocolitica
57	SWBM-057	Opti CP / CJ / CC / LM Multi-qPCR kit	Clostridium perfringens / Campylobacter jejuni / Campylobacter coli / Listeria monocytogenes
58	SWBM-058	Opti MH / MHR Multi-qPCR kit	Mycoplasma hyopneumoniae / Mycoplasma hyorhinis
59	SWBM-059	Opti S.hycus toxin Multi-qPCR kit	Staphylococcus hyicus exfoliative toxin genes (ExhA, ExhB, ExhC & ExhD)

Swine - Fungi

No.	Cat. No.	Product	Description
01	SWFS-001	Opti Aspergillus-qPCR kit	Aspergillus spp.
02	SWFS-002	Opti Blastomyces-qPCR kit	Blastomyces spp.
03	SWFS-003	Opti Candida-qPCR kit	Candida spp.
04	SWFS-004	Opti Cryptococcus-qPCR kit	Cryptococcus spp.
05	SWFS-005	Opti Histoplasma-qPCR kit	Histoplasma spp.
06	SWFS-006	Opti Microsporum-qPCR kit	Microsporum spp.
07	SWFS-007	Opti Coccidioides immitis-qPCR kit	Coccidioides immitis
08	SWFS-008	Opti Paracoccidioides brasiliensis-qPCR kit	Paracoccidioides brasiliensis
09	SWFS-009	Opti Talaromyces marneffeii-qPCR kit	Talaromyces marneffeii
10	SWFS-010	Opti Trichophyton-qPCR kit	Trichophyton spp.

Swine - Parasite

No.	Cat. No.	Product	Description
01	SWPS-001	Opti Isospora suis-qPCR kit	Isospora suis
02	SWPS-002	Opti Eimeria-qPCR kit	Eimeria spp.
03	SWPM-003	#Opti Swine coccidiosis Multi-qPCR kit	Isospora suis, Eimeria spp.
04	SWPS-004	Opti Ascaris suum-qPCR kit	Ascaris suum
05	SWPS-005	Opti Echinococcus-qPCR kit	Echinococcus spp.
06	SWPS-006	Opti Oesophagostomun-qPCR kit	Oesophagostomun spp.
07	SWPS-007	Opti Hyostrogylus rubidus-qPCR kit	Hyostrogylus rubidus
08	SWPS-008	Opti Macracanthorhynchus hirudinaceus-qPCR kit	Macracanthorhynchus hirudinaceus
09	SWPS-009	Opti Metastrongylus-qPCR kit	Metastrongylus spp.
10	SWPS-010	Opti Stephanura dentatus-qPCR kit	Stephanura dentatus
11	SWPS-011	Opti Strongyloides-qPCR kit	Strongyloides spp.
12	SWPS-012	Opti Taenia solium-qPCR kit	Taenia solium
13	SWPS-013	Opti Toxocara-qPCR kit	Toxocara spp.
14	SWPS-014	Opti Trichinella spiralis-qPCR kit	Trichinella spiralis
15	SWPS-015	Opti Trichostrongylus-qPCR kit	Trichostrongylus spp.
16	SWPS-016	Opti Trichuris suis-qPCR kit	Trichuris suis
17	SWPS-017	Opti Babesia-qPCR kit	Babesia spp.
18	SWPS-018	Opti Balantidium coli-qPCR kit	Balantidium coli
19	SWPS-019	Opti Cryptosporidium parvum-qPCR kit	Cryptosporidium parvum
20	SWPS-020	Opti Entamoeba suis-qPCR kit	Entamoeba suis
21	SWPS-021	Opti Neospora-qPCR kit	Neospora spp.
22	SWPS-022	Opti Sarcocystis miescheriana-qPCR kit	Sarcocystis miescheriana
23	SWPS-023	Opti Sarcocystis suihominis-qPCR kit	Sarcocystis suihominis
24	SWPS-024	Opti Toxoplasma-qPCR kit	Toxoplasma spp.
25	SWPS-025	Opti Trypanosoma-qPCR kit	Trypanosoma spp.

Swine - Virus

No.	Cat. No.	Product	Description
01	IA-01	*Opti ASFV-qPCR kit	African swine fever virus / Exogeneous IC
		*Opti ASFV-qPCR ver1 kit	African swine fever virus / Exogeneous IC / Endogeneous IC
02	IAM-002	Opti ASFV Multi-qPCR kit	African swine fever virus / Detection of I177L gene
03	IAM-003	Opti ASFV-DIVA genotyping Multi-qPCR kit	African swine fever virus / Detection of I177L gene and MGF-360-12L gene (Genotype II & V)
04	IP-01	*Opti PCMV-qPCR kit	Porcine cytomegalovirus
05	SWVS-003	Opti PCV2-qPCR kit	Porcine circovirus type 2
06	SWVS-004	Opti PCV3-qPCR kit	Porcine circovirus type 3
07	SWVS-005	Opti PPV-qPCR kit	Porcine parvovirus
08	SWVS-006	Opti ADV-qPCR kit	Pseudorabiesvirus; Aujeszky's disease virus

Animal Molecular Diagnostic Products

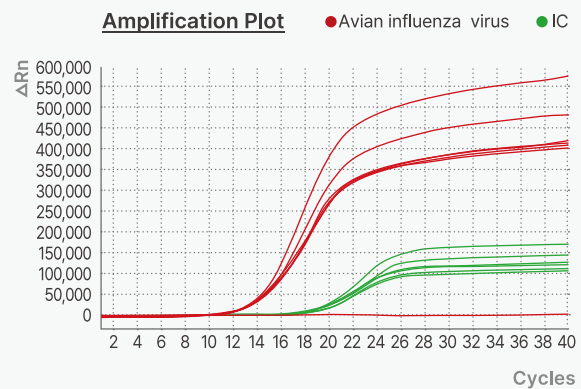
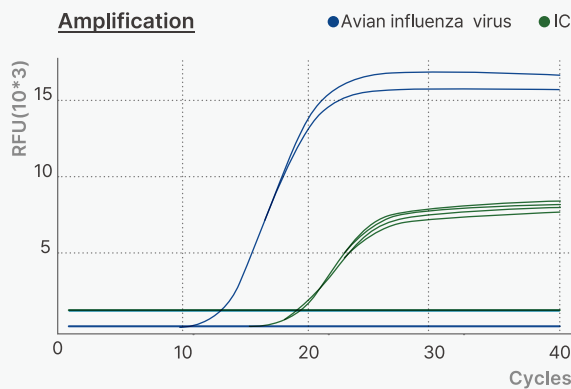
No.	Cat. No.	Product	Description
09	SWVS-007	Opti PRRSV (NA / EU) -qPCR kit	Porcine reproductive and respiratory syndrome (NA / EU) virus
10	SWVS-008	Opti PEDV-qPCR kit	Porcine epidemic diarrhea virus
11	SWVM-009	Opti RV-A / B / C Multi-qPCR kit	Rotavirus A / B / C
12	SWVS-010	Opti TGEV-qPCR kit	Transmissible gastroenteritis virus
13	SWVS-011	Opti SIV-qPCR kit	Porcine Influenza A virus
14	SWVS-012	Opti JEV-qPCR kit	Japanese encephalitis virus
15	SWVM-013	*Opti PRRSV / PCV2 Multi-qPCR kit	Porcine reproductive and respiratory syndrome virus (NA) / Porcine reproductive and respiratory syndrome virus (EU) / Porcine circovirus type 2
16	SWVM-014	Opti PEDV / TGEV / RVA Multi-qPCR kit	Porcine epidemic diarrhea virus / Transmissible gastroenteritis virus / Rotavirus A
17	SWVM-015	*Opti PEDV / TGEV / RVA / RVC Multi-qPCR kit	Porcine epidemic diarrhea virus / Transmissible gastroenteritis virus / Rotavirus A / C
18	SWVS-016	Opti EMCV-qPCR kit	Encephalomyocarditis virus
19	SWVS-017	Opti CSFV-qPCR kit	Classical swine fever virus
20	SWVS-018	Opti PDCoV-qPCR kit	Porcine delta corona virus
21	SWVS-019	Opti PPIV5-qPCR kit	Porcine parainfluenza virus5 (PPIV5)
22	SWVM-020	#Opti PCV2 genotyping Multi-qPCR kit	Porcine circovirus type 2 genotyping
23	SWVM-021	#Opti SIV / JEV / EMCV Multi-qPCR kit	Porcine Influenza A virus / Japanese encephalitis virus / Encephalomyocarditis virus
24	SWVM-022	#Opti PPV / PCMV / ADV Multi-qPCR kit	Porcine parvovirus / Porcine cytomegalovirus / Pseudorabiesvirus; Aujeszky's disease virus
25	SWVM-023	#Opti HP-PRRSV / PCV2 Multi-qPCR kit	Highly Pathogenic Porcine reproductive and respiratory syndrome virus (NA/EU) / Porcine circovirus type 2
26	SWVM-024	Opti SIV / PCMV / CSFV Multi-qPCR kit	Porcine Influenza A virus / Porcine cytomegalovirus / Classical swine fever virus
27	SWVM-025	Opti PRRSV / PCV2 / PCV3 Multi-qPCR kit	Porcine reproductive and respiratory syndrome virus (NA) / PRRSV (EU) / Porcine circovirus type 2 / Porcine circovirus type 3
28	SWVM-026	Opti PCMV / CSFV / EMCV Multi-qPCR kit	Porcine cytomegalovirus / Classical swine fever virus / Encephalomyocarditis virus
29	SWVM-027	Opti RVA / PEDV / Sal / Law Multi-qPCR kit	Rotavirus A / Porcine epidemic diarrhea virus / Salmonella spp. / Lawsonia intracellularis
30	SWVS-028	Opti AKAV-qPCR kit	Akabane virus (AKAV)
31	SWVS-029	Opti TTV-qPCR kit	Alphatorquevirus (Torque teno, TTV)
32	SWVS-030	Opti APOIV-qPCR kit	Apoi virus
33	SWVS-031	Opti BATV-qPCR kit	Batai virus
34	SWVS-032	Opti BDVI-qPCR kit	Border disease virus
35	SWVS-033	Opti BDVII-qPCR kit	Borna disease virus
36	SWVS-034	Opti CVV-qPCR kit	Cache valley virus
37	SWVS-035	Opti CHIKV-qPCR	Chikungunya virus
38	SWVS-036	Opti EEEV-qPCR kit	Eastern equine encephalitis virus
39	SWVS-037	Opti EV-G-qPCR kit	Porcine enterovirus G
40	SWVS-038	Opti GETV-qPCR kit	Getah virus
41	SWVM-039	Opti HV Multi-qPCR kit	Hantavirus pulmonary syndrome (HPS) / Hantavirus hemorrhagic fever with renal syndrome (HFRS-Seoul, Hantaan)
42	SWVS-040	Opti HAV-qPCR kit	Hepatitis A

No.	Cat. No.	Product	Description
43	SWVS-041	Opti HBV-qPCR kit	Hepatitis B
44	SWVS-042	Opti HEV-qPCR kit	Hepatitis E
45	SWVM-043	Opti HAV / HBV / HEV Multi-qPCR kit	Hepatitis A / B / E
46	SWVS-044	Opti RV-qPCR kit	Rhinovirus
47	SWVS-045	Opti IBAV-qPCR kit	Ibaraki virus
48	SWVS-046	Opti LV-qPCR kit	Ljungan-like virus
49	SWVS-047	Opti LIV-qPCR kit	Louping ILL virus
50	SWVS-048	Opti MV-qPCR kit	Measles virus
51	SWVS-049	Opti MenPV-qPCR kit	Menangle (Menangle pararubulavirus, MenPV) virus
52	SWVS-050	Opti NiV-qPCR kit	Nipah virus
53	SWVS-051	Opti PAdV-qPCR kit	Porcine adenovirus
54	SWVS-052	Opti PAsV-qPCR kit	Porcine astrovirus genotyping (type 1-5)
55	SWVS-053	Opti PBoV-qPCR kit	Porcine bocavirus
56	SWVM-054	Opti SPV Multi-qPCR kit	Swine papillomavirus 1 / 2
57	SWVS-055	Opti PHEV-qPCR kit	Porcine Hemagglutinating encephalomyelitis virus
58	SWVS-056	Opti PKoV-qPCR Kit	Porcine kobuvirus
59	SWVM-057	Opti PLHV Multi-qPCR kit	Porcine lymphotropic herpesvirus type 1 / 2
60	SWVS-058	Opti PBV-qPCR kit	Porcine picobirnavirus
61	SWVS-059	Opti PyV-qPCR kit	Porcine polyomavirus
62	SWVS-060	Opti PRCV-qPCR kit	Porcine respiratory coronavirus
63	SWVS-061	Opti PoRV-qPCR kit	Porcine rubulavirus
64	SWVS-062	Opti PSV-qPCR kit	Porcine sapelovirus
65	SWVS-063	Opti PSaV-qPCR kit	Porcine sapovirus
66	SWVS-064	Opti PTV-qPCR kit	Porcine Teschovirus A virus
67	SWVS-065	Opti PToV-qPCR kit	Porcine torovirus
68	SWVS-066	Opti RABV-qPCR kit	Rabies virus
69	SWVS-067	Opti ReoV-qPCR Kit	Reovirus
70	SWVS-068	Opti RSV-qPCR kit	Respiratory syncytial virus A / B
71	SWVS-069	Opti SVDV-qPCR kit	Swine vesicular disease virus
72	SWVS-070	Opti SWPV-qPCR kit	Swinepox virus
73	SWVS-071	Opti TBEV-qPCR kit	Tick-born encephalitis virus
74	SWVS-072	Opti TioV-qPCR kit	Tioman virus
75	SWVS-073	Opti VEEV-qPCR kit	Venezuelan equine encephalitis virus
76	SWVM-074	Opti VSV Multi-qPCR kit	Swine vesicular stomatitis indiana viurs (VSIV) / New jersey virus (VSNJV)
77	SWVS-075	Opti PRRSV (NA) -qPCR kit	Porcine reproductive and respiratory syndrome (NA) virus
78	SWVS-076	Opti PRRSV (EU) -qPCR kit	Porcine reproductive and respiratory syndrome (EU) virus
79	SWVS-077	Opti HP-PRRSV-qPCR kit	Highly pathogenic Porcine reproductive and respiratory syndrome virus
80	SWVS-078	Opti FMD-qPCR kit	Foot-and-Mouth Disease
81	SWVS-079	Opti WSL-qPCR kit	Wesselsbron virus
82	SWVS-080	Opti WNV-qPCR kit	West Nile virus
83	SWVS-081	Opti WEEV-qPCR kit	Western equine encephalitis virus

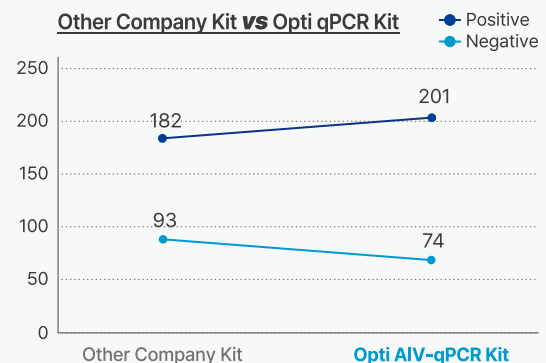
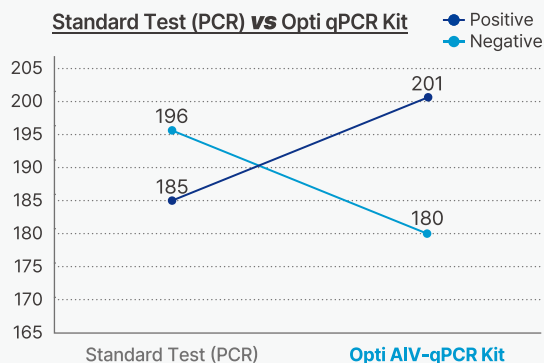
Opti AIV-qPCR Kit (AVVS-001)

Specification

- Approved by Korean Animal and Plant Quarantine Agency (APQA); No. 238-016
- Opti AIV-qPCR Kit is an *in vitro* diagnostic reagent used to diagnose the M gene of Avian Influenza Virus (AIV)
- Sample : Avian Tissue, Feces etc.
- Running Time : 50 – 70 min.



Opti AIV-qPCR Kit



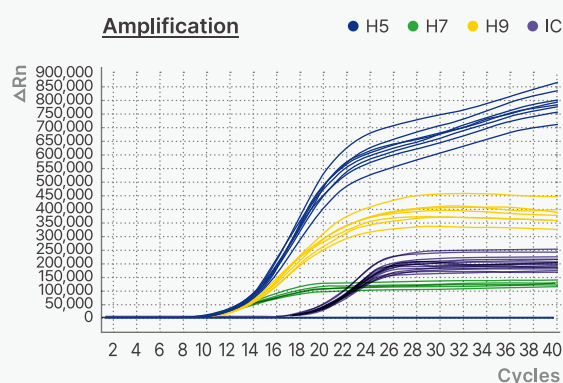
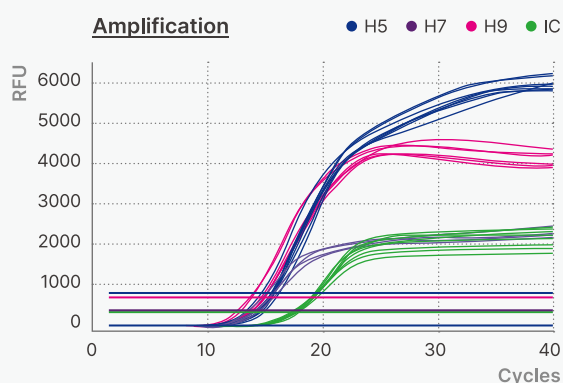
Opti AIV-qPCR Kit showed the [higher sensitivity than the standard test \(PCR\) or other company kits in the same sample.](#)

So you can do the [more accurate analysis](#) because you can get results reducing false positives and false negatives.

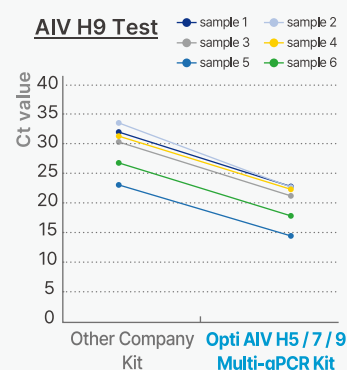
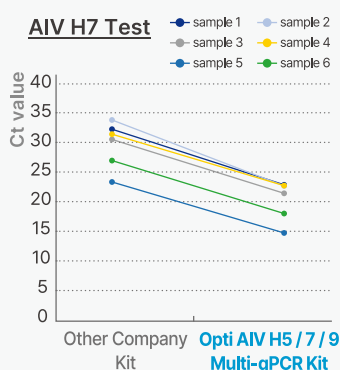
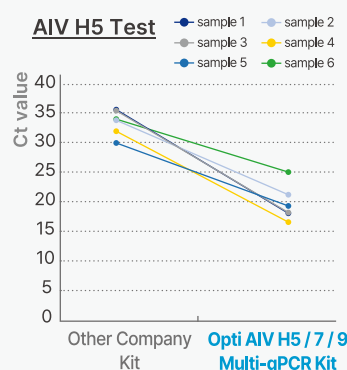
Opti AIV H5 / 7 / 9 Multi-qPCR Kit (AVVM-008)

Specification

- Opti AIV H5 / 7 / 9 Multi-qPCR Kit is an *in vitro* diagnostic reagent that can simultaneously identify Avian influenza AIV H5 / 7 / 9 in AIV-positive samples.
- Sample: Avian Tissue, Feces etc.
- Running Time : 50 – 70 min.



qPCR Results of Opti AIV H5 / 7 / 9 Multi-qPCR Kit



Opti AIV H5 / 7 / 9 Multi-qPCR Kit showed the [higher sensitivity in each AIV H5 / 7 / 9](#) than other company's products in the same positive samples.

Animal Molecular Diagnostic Products

Avian - Bacteria

No.	Cat. No.	Product	Description
01	AVBS-001	Opti Brachyspira pilosicoli-qPCR kit	Brachyspira pilosicoli
02	AVBS-002	Opti Clostridium colinum-qPCR kit	Clostridium colinum
03	AVBS-003	Opti Chlamydia-qPCR kit	Chlamydia spp.
04	AVBS-004	Opti Clostridium perfringens-qPCR kit	Clostridium perfringens
05	AVBS-005	Opti Coxiella burnetii-qPCR kit	Coxiella burnetii
06	AVBS-006	Opti Campylobacter coli-qPCR kit	Campylobacter coli
07	AVBS-007	Opti Campylobacter jejuni-qPCR kit	Campylobacter jejuni
08	AVBS-008	Opti Erysipelothrix rhusiopathiae-qPCR kit	Erysipelothrix rhusiopathiae
09	AVBS-009	Opti Escherichia coli-qPCR kit	Escherichia coli
10	AVBS-010	Opti Enterococcus-qPCR kit	Enterococcus spp.
11	AVBS-011	Opti Mycoplasma gallisepticum-qPCR kit	Mycoplasma gallisepticum
12	AVBS-012	Opti Mycoplasma synoviae-qPCR kit	Mycoplasma synoviae
13	AVBS-013	Opti Mycoplasma-qPCR kit	Mycoplasma spp.
14	AVBS-014	Opti Salmonella gallinarum-qPCR kit	Salmonella gallinarum
15	AVBS-015	Opti Salmonella Agona-qPCR kit	Salmonella Agona
16	AVBS-016	Opti Salmonella-qPCR kit	Salmonella spp.
17	AVBS-017	Opti Salmonella Albany-qPCR kit	Salmonella Albany
18	AVBS-018	Opti Salmonella aureus-qPCR kit	Staphylococcus aureus
19	AVBS-019	Opti Salmonella Bareilly-qPCR kit	Salmonella Bareilly
20	AVBS-020	Opti Salmonella Braenderup-qPCR kit	Salmonella Braenderup
21	AVBS-021	Opti Salmonella enteritidis-qPCR kit	Salmonella enteritidis
22	AVBS-022	Opti Salmonella Hardar-qPCR kit	Salmonella Hardar
23	AVBS-023	Opti Salmonella Kentucky-qPCR kit	Salmonella Kentucky
24	AVBS-024	Opti Salmonella Montevideo-qPCR kit	Salmonella Montevideo
25	AVBS-025	Opti Salmonella Senftenberg-qPCR kit	Salmonella Senftenberg
26	AVBS-026	Opti Staphylococcus-qPCR kit	Staphylococcus spp.
27	AVBS-027	Opti Salmonella Thompson-qPCR kit	Salmonella Thompson
28	AVBS-028	Opti Salmonella typhimurium-qPCR kit	Salmonella typhimurium
29	AVBS-029	Opti Salmonella Virchow-qPCR kit	Salmonella Virchow
30	AVBS-030	Opti Francisella tularensis-qPCR kit	Francisella tularensis
31	AVBM-031	Opti IC A / B / C Multi-qPCR kit	Infectious Coryza (Avibacterium paragallinarum), Serotype A / B / C
32	AVBM-032	Opti CP / CC / Sal / Eco Multi-qPCR kit	Clostridium perfringens / Clostridium colinum / Salmonella spp. / Escherichia coli
33	AVBM-033	Opti Sal / PM / Eco / CC Multi-qPCR kit	Salmonella spp. / Pasteurella multocida / Escherichia coli / Clostridium colinum
34	AVBM-034	Opti Sal / Ent / Sta / MS Multi-qPCR kit	Salmonella spp. / Enterococcus spp. / Staphylococcus spp. / Mycoplasma synoviae
35	AVBM-035	Opti SG / SP Multi-qPCR kit	Salmonella gallinarum / Salmonella pullorum
36	AVBM-036	Opti SG / SP / MG / MS Multi-qPCR kit	Salmonella gallinarum / Salmonella pullorum / Mycoplasma gallisepticum / Mycoplasma synoviae
37	AVBM-037	Opti Sal-2plex 1 Multi-qPCR kit	Salmonella spp. / S.virchow
38	AVBM-038	Opti Sal-2plex 2 Multi-qPCR kit	Salmonella albania / S.senftenberg
39	AVBM-039	Opti Sal-3plex 1 Multi-qPCR kit	Salmonella spp. / S.enteritidis / S.typhimurium
40	AVBM-040	Opti Sal-3plex 2 Multi-qPCR kit	Salmonella agona / S.montevideo / S.kentucky
41	AVBM-041	Opti Sal-4plex 1 Multi-qPCR kit	Salmonella spp. / S.enteritidis / S.typhimurium / S.thompson
42	AVBM-042	Opti Sal-4plex 2 Multi-qPCR kit	Salmonella enteritidis / S.infantis / S.hadar / S.typhimurium
43	AVBM-043	Opti Sal-4plex 3 Multi-qPCR kit	Salmonella enteritidis / S.infantis / S.hadar / S.virchow
44	AVBM-044	Opti Sal-4plex 4 Multi-qPCR kit	Salmonella enteritidis / S.infantis / S.agona / S.montevideo
45	AVBM-045	Opti Sal-4plex 5 Multi-qPCR kit	Salmonella agona / S.montevideo / S.kentucky / S.braenderup
46	AVBM-046	Opti Sal-4plex 6 Multi-qPCR kit	Salmonella agona / S.montevideo / S.kentucky / S.albania
47	AVBM-047	Opti Sal-4plex 7 Multi-qPCR kit	Salmonella bareilly / S.infantis / S.hadar / S.virchow
48	AVBM-048	Opti Sal-4plex 8 Multi-qPCR kit	Salmonella gallinarum / Pullorum / S.infantis / S.hadar / S.virchow

No.	Cat. No.	Product	Description
49	AVBM-049	Opti Sal-4plex 9 Multi-qPCR kit	Salmonella gallinarum / S.pullorum / S.enteritidis / S.typhimurium
50	AVBM-050	Opti CP toxin I Multi-qPCR kit	Clostridium perfringens alpha toxin (CPA) / Beta toxin (CPB) / Enterotoxin (CPE)
51	AVBM-051	Opti CP toxin II Multi-qPCR kit	Clostridium perfringens Iota (iap) toxin / Epsilon (etx) toxin / NetB toxin

Avian - Bacteria-Parasite

No.	Cat. No.	Product	Description
01	AVBP-001	Opti Ei / CPA / CPNetB Multi-qPCR kit	Eimeria spp. / Clostridium perfringens alpha toxin / Clostridium perfringens Net B
02	AVBP-002	Opti Ei / Sal / CPA / CPNetB Multi-qPCR kit	Eimeria spp. / Salmonella spp. / Clostridium perfringens alpha toxin / Clostridium perfringens Net B

Avian - Parasite

No.	Cat. No.	Product	Description
01	AVPS-001	Opti Eimeria necatrix-qPCR kit	Eimeria necatrix
02	AVPS-002	Opti Eimeria tenella-qPCR kit	Eimeria tenella
03	AVPS-003	Opti Eimeria maxima-qPCR kit	Eimeria maxima
04	AVPS-004	Opti Eimeria brunetti-qPCR kit	Eimeria brunetti
05	AVPS-005	Opti Eimeria acervulina-qPCR kit	Eimeria acervulina
06	AVPS-006	Opti Eimeria mitis-qPCR kit	Eimeria mitis (Eimeria mivati)
07	AVPS-007	Opti Eimeria praecox-qPCR kit	Eimeria praecox
08	AVPM-005	Opti Avian coccidiosis I Multi-qPCR kit	E. maxima / E. necatrix / E. brunetti / E. tenella
09	AVPM-006	Opti Avian coccidiosis II Multi-qPCR kit	E. acervulina / E. mitis (E. mivati) / E. praecox
10	AVPS-010	Opti Eimeria-qPCR kit	Eimeria spp.
11	AVPM-011	Opti Avian coccidiosis layer 5 species Multi-qPCR kit	E. acervulina / E. tenella / E. maxima / E. brunetti / E. necatrix (Bio-rad only)
12	AVPM-012	Opti Avian coccidiosis broiler 5 species Multi-qPCR kit	E. acervulina / E. tenella / E. maxima / E. praecox / E. mivati (E. mitis) (Bio-rad only)

Avian - Virus

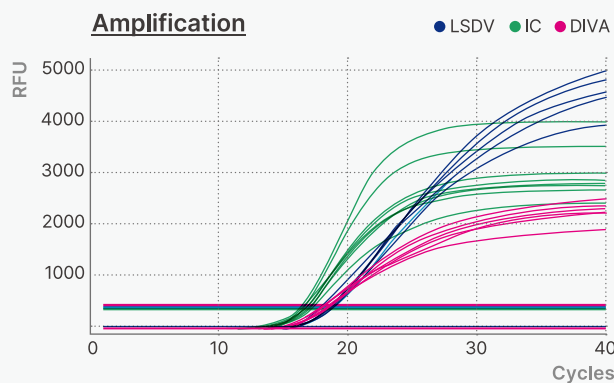
No.	Cat. No.	Product	Description
01	AVVS-001	*Opti AIV-qPCR kit	Avian influenza virus
		*Opti AIV-qPCR ver1 kit	Avian influenza virus / ExoIC / EndoIC
02	AVVS-002	Opti IBV-qPCR kit	Infectious brochitis virus
03	AVVS-003	Opti NDV-qPCR kit	Newcastle disease virus
04	AVVS-004	Opti FPV-qPCR kit	Fowl poxvirus
05	AVVS-005	Opti ILTV-qPCR kit	Infectious laryngotracheitis virus
06	AVVS-006	Opti FAdV-qPCR kit	Fowl adenovirus
07	AVVM-007	Opti AIV / NDV / IBV / AMPV Multi-qPCR kit	Avian influenza virus / Newcastle disease virus / Infectious Brochitis virus / Avian metapneumovirus A / B
08	AVVM-008	Opti AIV-H5 / 7 / 9 Multi-qPCR kit	Avian influenza H5 / 7 / 9
09	AVVM-009	Opti APV Multi-qPCR kit	Avian metapneumovirus A / B / C / D
10	AVVM-010	Opti FAdV / 4 / 8b / 11 Multi-qPCR kit	Fowl adenovirus, serotype 4 / 8b / 11
11	AVVM-011	Opti FPV / ILTV Multi-qPCR kit	Fowl poxvirus / Infectious laryngotracheitis virus
12	AVVM-012	Opti IBV-typing I Multi-qPCR kit	Infectious brochitis virus typing I Multiplex (QX, K2, B4)
13	AVVM-013	Opti AIV-H5 / 7 Multi-qPCR kit	Highly pathogenic avian influenza H5 / 7
14	AVVS-014	Opti AIV H5-qPCR kit	Highly pathogenic avian influenza H5
15	AVVS-015	Opti AIV H7-qPCR kit	Highly pathogenic avian influenza H7
16	AVVS-016	Opti AIV H9-qPCR kit	Avian influenza H9
17	AVVM-017	Opti IBV-typing II Multi-qPCR kit	Infectious brochitis virus typing II Multiplex (QX, Mass, 793 / B (Vietnam))

OPTIPHARM's Bovine Kit

Specification

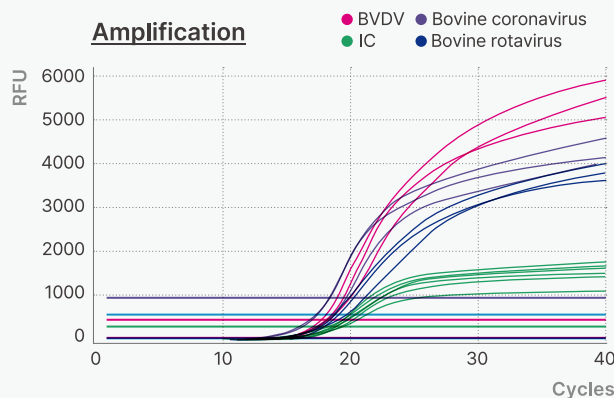
- OPTIPHARM's Bovine-qPCR Kit is an *in vitro* diagnostic reagent used to diagnose various diseases in Bovine.
- Sample : Bovine Blood, Serum, Tissue, Feces etc.
- Running Time : 50 – 70 min.

Opti LSDV Multi-qPCR Kit



- Catalog No. BOVM-015
- Lumpy skin disease virus (LSDV)
- Differentiation of infected from Vaccinated animals (DIVA)
- Internal control (IC)

Opti BVDV / BCoV / BRV Multi-qPCR Kit



- Catalog No. BOVM-008
- Bovine viral diarrhea virus (BVDV)
- Bovine coronavirus (BCoV)
- Bovine rotavirus (BRV)
- Internal control (IC)

Bovine - Bacteria

No.	Cat. No.	Product	Description
01	BOBS-001	Opti Bordetella bronchiseptica -qPCR kit	Bordetella bronchiseptica
02	BOBS-002	Opti Bacillus anthracis-qPCR kit	Bacillus anthracis
03	BOBS-003	Opti Bovine mycoplasma mycoides-qPCR kit	Bovine mycoplasma mycoides
04	BOBS-004	Opti Clostridium perfringens-qPCR kit	Clostridium perfringens
05	BOBS-005	Opti Corynebacterium bovis-qPCR kit	Corynebacterium bovis
06	BOBS-006	Opti Coxiella burnetii-qPCR kit	Coxiella burnetii
07	BOBS-007	Opti Campylobacter coli-qPCR kit	Campylobacter coli
08	BOBS-008	Opti Campylobacter jejuni-qPCR kit	Campylobacter jejuni
09	BOBS-009	Opti Escherichia coli-qPCR kit	Escherichia coli
10	BOBS-010	Opti Enterococcus-qPCR kit	Enterococcus spp.
11	BOBS-011	Opti Klebsiella oxytoca-qPCR kit	Klebsiella oxytoca
12	BOBS-012	Opti Klebsiella-qPCR kit	Klebsiella spp.
13	BOBS-013	Opti Listeria monocytogenes-qPCR kit	Listeria monocytogenes
14	BOBS-014	Opti Mannheimia haemolytica -qPCR kit	Mannheimia (Pasteurella) haemolytica
15	BOBS-015	Opti Mycobacterium-qPCR kit	Mycobacterium spp.
16	BOBS-016	Opti Mycoplasma-qPCR kit	Mycoplasma spp.
17	BOBS-017	Opti Pasteurella multocida -qPCR kit	Pasteurella multocida
18	BOBS-018	Opti Pasteurella-qPCR kit	Pasteurella spp. (Pasteurella multocida)
19	BOBS-019	Opti Psuedomonas aeruginosa -qPCR kit	Psuedomonas aeruginosa
20	BOBS-020	Opti Streptococcus agalactiae -qPCR kit	Streptococcus agalactiae
21	BOBS-021	Opti Salmonella-qPCR kit	Salmonella spp.
22	BOBS-022	Opti Staphylococcus aureus-qPCR kit	Staphylococcus aureus
23	BOBS-023	Opti Staphylococcus-qPCR kit	Staphylococcus spp.
24	BOBS-024	Opti Streptococcus-qPCR kit	Streptococcus spp.
25	BOBM-023	Opti CJ / CC Multi-qPCR kit	Campylobacter jejuni / Campylobacter coli
26	BOBM-025	Opti CP / CJ / CC / LM Multi-qPCR kit	Clostridium perfringens / Campylobacter jejuni / Campylobacter coli / Listeria monocytogenes
27	BOBM-026	Opti CP toxin I Multi-qPCR kit	Clostridium perfringens alpha toxin (CPA) / Beta toxin (CPB) / Enterotoxin (CPE)
28	BOBM-027	Opti CP toxin II Multi-qPCR kit	Clostridium perfringens iota (iap) toxin / Epsilon (etx) toxin / NetB toxin
29	BOBM-028	Opti MRSA Multi-qPCR kit	Staphylococcus aureus, MecA
30	BOBM-029	Opti VRE Multi-qPCR kit	Enterococcus spp. / Vancomycin A / B

Animal Molecular Diagnostic Products

Bovine - Parasite

No.	Cat. No.	Product	Description
01	BOPS-001	Opti Eimeria-qPCR kit	Eimeria spp.
02	BOPS-002	Opti Giardia duodenalis-qPCR kit	Giardia duodenalis (Giardia lamblia & Giardia intestinalis)
03	BOPS-003	Opti Cryptosporidium-qPCR kit	Cryptosporidium spp.
04	BOPM-004	Opti Gduo / Ei / Crypto Multi-qPCR kit	Giardia duodenalis (Giardia lamblia & Giardia intestinalis), Eimeria spp., Cryptosporidium spp.

Bovine - Virus

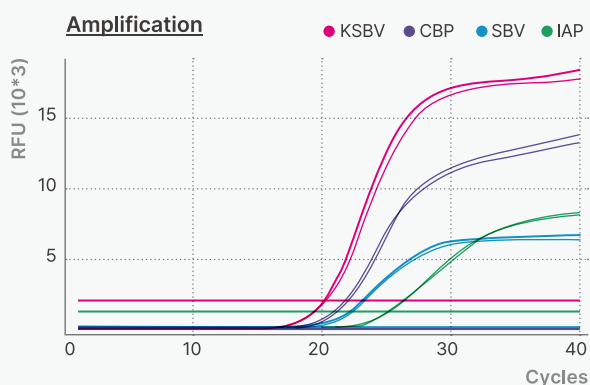
No.	Cat. No.	Product	Description
01	BOVS-001	Opti BVDV-qPCR kit	Bovine viral diarrhea virus
02	BOVS-002	Opti BCoV-qPCR kit	Bovine coronavirus
03	BOVS-003	Opti BRV-qPCR kit	Bovine rotavirus
04	BOVS-004	Opti BoHV-1-qPCR kit	Bovine alphaherpesvirus 1
05	BOVS-005	Opti PIV3-qPCR kit	Bovine parainfluenza virus type 3
06	BOVS-006	Opti BRSV-qPCR kit	Bovine respiratory syncytial virus
07	BOVS-007	Opti BIDV-qPCR kit	Bovine Influenza D virus
08	BOVM-008	Opti BVDV / BCoV / BRV Multi-qPCR kit	Bovine viral diarrhea virus / B. coronavirus / B. rotavirus
09	BOVS-009	Opti PPRV-qPCR kit	Bovine peste des petits ruminants virus
10	BOVS-010	Opti LSDV-qPCR kit	Bovine Lumpy skin disease virus
11	BOVM-011	Opti LSDV Multi-qPCR kit	Lumpy skin disease virus / Differentiation of infected from Vaccinated Animals (DIVA)
12	BOVS-012	Opti RVFV-qPCR kit	Bovine rift valley fever virus
13	BOVS-013	Opti CPXV-qPCR kit	Cowpox virus
14	BOVS-014	Opti BoTV-qPCR kit	Bovine torovirus
15	BOVM-015	Opti BVDV / BCoV / BRV / BoTV Multi-qPCR kit	Bovine viral diarrhea virus / B. coronavirus / B. rotavirus / B. torovirus
16	BOVS-016	Opti FMD-qPCR kit	Foot-and-Mouth Disease

OPTIPHARM's Honeybee Kit

Specification

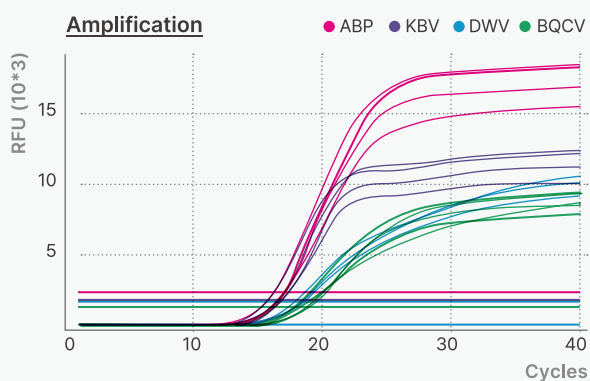
- OPTIPHARM's Honeybee Kits are *in vitro* diagnostic reagents for the diagnosis of Honeybee diseases that cause enormous damage to the Honeybee industry.
- Sample : Honeybee Larva, Tissue etc.
- Running Time : 50 – 70 min.

Opti SBV / KSBV / CBPV / IAPV Multi-qPCR Kit



- Catalog No. HBVM-009
- Sacbrood virus (SBV)
- Korean Sacbrood virus (KSBV)
- Chronic bee paralysis (CBPV)
- Israel acute paralysis (IAPV)

Opti BQCV / DWV / ABPV / KBV Multi-qPCR Kit



- Catalog No. HBVM-010
- Black queen cell virus (BQCV)
- Deformed wing virus (DWV)
- Acute bee paralysis (ABPV)
- Kashmir bee virus (KBV)

Animal Molecular Diagnostic Products

Honeybee - Bacteria

No.	Cat. No.	Product	Description
01	HBBS-001	Opti Paenibacillus larvae-qPCR kit	American Foulbrood (Paenibacillus larvae)
02	HBBS-002	Opti Melissococcus plutonius-qPCR kit	European Foulbrood (Melissococcus plutonius)
03	HBBM-003	Opti AFB / EFB Multi-qPCR kit	American Foulbrood, European Foulbrood

Honeybee - Parasite

No.	Cat. No.	Product	Description
01	HBPS-001	Opti Acarapis woodi-qPCR kit	Acarapisosis (Acarapis woodi)
02	HBPS-002	Opti Apocephalus borealis-qPCR kit	Phorid fly infestation (Apocephalus borealis)
03	HBPM-003	Opti Aca / PFI Multi-qPCR kit	Acarapisosis (Acarapis woodi) / Phorid fly infestation (Apocephalus borealis)
04	HBPS-004	Opti Aethina tumida-qPCR kit	Aethina tumida
05	HBPS-005	Opti Tropilaelaps mercedesae-qPCR kit	Tropilaelaps mercedesae
06	HBPS-006	Opti Varroa destructor-qPCR kit	Varroa destructor
07	HBPS-007	Opti Varroa jacobsoni-qPCR kit	Varroa jacobsoni
08	HBPM-008	Opti Atu / Tme / Vde / Vja Multi-qPCR kit	Parasitic worm (Aethina tumida, Tropilaelaps mercedesae, Varroa destructor, Varroa jacobsoni)

Honeybee - Fungi

No.	Cat. No.	Product	Description
01	HBFS-001	Opti Ascosphaera apis-qPCR kit	Chalkbrood (Ascosphaera apis)
02	HBFS-002	Opti Nosema-qPCR kit	Nosema spp. (Nosema apis, N.ceranae, N.bamb etc.)
03	HBFS-003	Opti Aspergillus flavus-qPCR kit	Stonebrood (Aspergillus flavus)
04	HBFM-004	Opti SB / CB / NS Multi-qPCR kit	Stonebrood / Chalkbrood / Nosemosis
05	HBFS-005	Opti Nosema apis-qPCR kit	Nosema apis
06	HBFS-006	Opti Nosema bombi-qPCR kit	Nosema bombi
07	HBFS-007	Opti Nosema ceranae-qPCR kit	Nosema ceranae
08	HBFM-008	Opti Nosema-3plex Multi-qPCR kit	Nosema apis, N. ceranae, N. bombi
09	HBFM-009	Opti Nosema-4plex Multi-qPCR kit	Nosema spp., Nosema apis, N. ceranae, N. bombi

Honeybee - Bacteria-Parasite

No.	Cat. No.	Product	Description
01	HBBP-001	Opti AFB / EFB / Aca / PFI Multi-qPCR kit	American Foulbrood / European Foulbrood / Acarapisosis / Phorid fly infestation

Honeybee - Virus

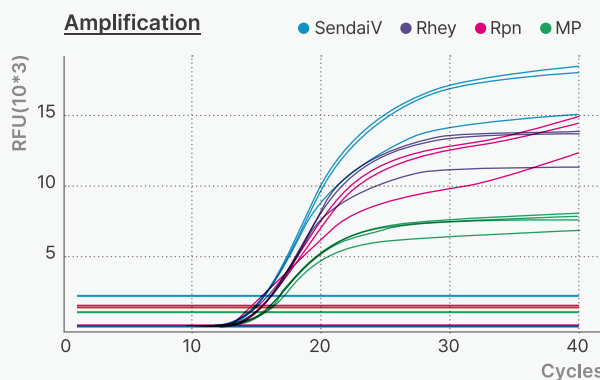
No.	Cat. No.	Product	Description
01	HBVS-001	Opti SBV-qPCR kit	Sacbrood virus
02	HBVS-002	Opti KSBV-qPCR kit	Korean Sacbrood virus
03	HBVS-003	Opti ABPV-qPCR kit	Acute bee paralysis
04	HBVS-004	Opti BQCV-qPCR kit	Black queen cell virus
05	HBVS-005	Opti CBPV-qPCR kit	Chronic bee paralysis
06	HBVS-006	Opti DWV-qPCR kit	Deformed wing virus
07	HBVS-007	Opti IAPV-qPCR kit	Israel acute paralysis
08	HBVS-008	Opti KBV-qPCR kit	Kashmir bee virus
09	HBVM-009	Opti SBV / KSBV / CBPV / IAPV Multi-qPCR kit	Korean Sacbrood virus / Sacbrood virus / Chronic bee paralysis / Israel acute paralysis
10	HBVM-010	Opti BQCV / DWV / ABPV / KBV Multi-qPCR kit	Deformed wing virus / Black queen cell virus / Kashmir bee virus / Acute bee paralysis
11	HBVM-011	Opti DWV / IAPV / ABPV / BQCV Multi-qPCR kit	Deformed wing virus / Israeli acute paralysis virus / Acute bee paralysis virus / Black queen cell virus
12	HBVM-012	Opti SBV / KSBV / AFB / EFB Multi-qPCR kit	Sacbrood virus / Korean sacbrood virus / American Foulbrood / European Foulbrood
13	HBVS-013	Opti VDV1-qPCR kit	Varroa destructor virus1
14	HBVS-014	Opti SBPV-qPCR kit	Slow bee paralysis virus
15	HBVS-015	Opti KV-qPCR kit	Kakugo virus
16	HBVM-016	Opti LSV1-2 Multi-qPCR kit	Lake Sinai virus 1-2
17	HBVM-017	Opti DWV / VDV1 / Aca Multi-qPCR kit	Deformed wing virus (DWV), Varroa destructor virus1 (VDV1, DWVB), Acarapis woodi
18	HBVM-018	Opti SBPV / KV / LSV1-2 Multi-qPCR kit	Slow bee paralysis virus, Kakugo virus, Lake Sinai virus 1-2

OPTIPHARM's Laboratory Animal Kit

Specification

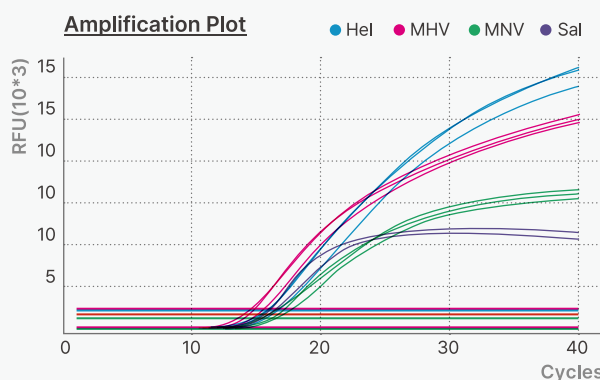
- OPTIPHARM's Laboratory Animal Kits are *in vitro* diagnostic reagents that can rapidly and accurately diagnose the presence or absence of infectious diseases required to ensure microbiological and genetic quality in Laboratory Animals.
- Sample : Laboratory Animal (Mouse, Rat, Guinea Pig, Rabbit, Mini-Pig) Blood, Serum, Tissue, Feces etc.
- Running Time : 50 – 70 min.

Opti SeV / MP / Rpn / Rhey Multi-qPCR Kit



- Catalog No. LAVM-016
- Sendai virus (SeV)
- Mycoplasma spp. (MP)
- Rodentibacter pneumotropicus (Rpn)
- Rodentibacter heyltii (Rhey)

Opti MHV / MNV / Sal / Hel Multi-qPCR Kit



- Catalog No. LAVM-017
- Mouse hepatitis virus (MHV)
- Murine norovirus (MNV)
- Salmonella spp. (Sal)
- Helicobacter spp. (Hel)

Lab. Animal - Bacteria

No.	Cat. No.	Product	Description
01	LABS-001	Opti Bordetella bronchiseptica-qPCR kit	Bordetella bronchiseptica
02	LABS-002	Opti Corynebacterium kutscheri-qPCR kit	Corynebacterium kutscheri
03	LABS-003	Opti Corynebacterium bovis-qPCR kit	Corynebacterium bovis
04	LABS-004	Opti Clostridium piliforme-qPCR kit	Clostridium piliforme
05	LABS-005	Opti Citrobacter rodentium-qPCR kit	Citrobacter rodentium
06	LABS-006	Opti Filobacterium rodentium-qPCR kit	Filobacterium rodentium
07	LABS-007	Opti Mycoplasma-qPCR kit	Mycoplasma spp. (M. pulmonis)
08	LABS-008	Opti Klebsiella oxytoca-qPCR kit	Klebsiella oxytoca
09	LABS-009	Opti Klebsiella-qPCR kit	Klebsiella spp.
10	LABS-010	Opti Helicobacter-qPCR kit	Helicobacter spp.
11	LABS-011	Opti Psuedomonas aeruginosa-qPCR kit	Psuedomonas aeruginosa
12	LABS-012	Opti Pasteurella-qPCR kit	Pasteurella spp. (Pasteurella multocida)
13	LABS-013	Opti Rodentibacter heylii-qPCR kit	Rodentibacter heylii
14	LABS-014	Opti Rodentibacter pneumotropicus-qPCR kit	Rodentibacter pneumotropicus
15	LABS-015	Opti Streptococcus agalactiae-qPCR kit	Streptococcus agalactiae
16	LABS-016	Opti Salmonella-qPCR kit	Salmonella spp.
17	LABS-017	Opti Staphylococcus aureus-qPCR kit	Staphylococcus aureus
18	LABM-018	Opti Sau / Smo / Cku / Pae Multi-qPCR kit	Staphylococcus aureus / Streptobacillus moniliformis / Corynebacterium kutscheri / Pseudomonas aeruginosa
19	LABS-019	Opti Streptobacillus moniliformis-qPCR kit	Streptobacillus moniliformis
20	LABS-020	Opti Streptococcus pneumoniae-qPCR kit	Streptococcus pneumoniae
21	LABS-021	Opti Streptococcus pyogenes-qPCR kit	Streptococcus pyogenes
22	LABS-022	Opti Salmonella typhimurium-qPCR kit	Salmonella typhimurium
23	LABS-023	Opti Streptococcus zooepidermicus-qPCR kit	Streptococcus zooepidermicus
24	LABM-024	Opti Cpil / Hbil / Hhepa / Htyp-qPCR kit	Clostridium piliforme / Helicobacter bilis / H. hepaticus / H. typhlonius
25	LABM-025	Opti Spn / Spyro / Saga / Szoo Multi-qPCR kit	Streptococcus pneumoniae / S. pyogenes / S. agalactiae / S. zooepidermicus
26	LABS-026	Opti Helicobacter bilis-qPCR kit	Helicobacter bilis
27	LABS-027	Opti Helicobacter hepaticus-qPCR kit	Helicobacter hepaticus
28	LABM-028	Opti Crod / Cbo / Kpn / Koxy Multi-qPCR kit	Citrobacter rodentium / Corynebacterium bovis / Klebsiella pneumoniae / K. oxytoca
29	LABS-029	Opti Helicobacter typhlonius-qPCR kit	Helicobacter typhlonius
30	LABS-030	Opti Tularemia-qPCR kit	Francisella tularensis

Animal Molecular Diagnostic Products

Lab. Animal - Fungi

No.	Cat. No.	Product	Description
01	LAFS-001	Opti Encephalitozoon cuniculi-qPCR kit	Encephalitozoon cuniculi
02	LAFS-002	Opti Pneumocystis jirovecii-qPCR kit	Pneumocystis jirovecii
03	LAFS-003	Opti Pneumocystis carinii-qPCR kit	Pneumocystis carinii
04	LAFS-004	Opti Pneumocystis murina-qPCR kit	Pneumocystis murina

Lab. Animal - Parasite

No.	Cat. No.	Product	Description
01	LAPS-001	Opti Syphacia obvelata-qPCR kit	Syphacia obvelata
02	LAPS-002	Opti Syphacia muris-qPCR kit	Syphacia muris
03	LAPS-003	Opti Aspiculuris tetraptera-qPCR kit	Aspiculuris tetraptera
04	LAPS-004	Opti Tritrichomonas-qPCR kit	Tritrichomonas spp.
05	LAPS-005	Opti Tritrichomonas muris-qPCR kit	Tritrichomonas muris
06	LAPS-006	Opti Entamoeba-qPCR kit	Entamoeba spp.
07	LAPS-007	Opti Entamoeba muris-qPCR kit	Entamoeba muris
08	LAPS-008	Opti Chilomastix-qPCR kit	Chilomastix spp.
09	LAPS-009	Opti Octomitus intestinalis-qPCR kit	Octomitus intestinalis
10	LAPS-010	Opti Hexamita-qPCR kit	Hexamita spp.
11	LAPS-011	Opti Giardia muris-qPCR kit	Giardia muris
12	LAPS-012	Opti Spironucleus muris-qPCR kit	Spironucleus muris
13	LAPS-013	Opti Cryptosporidium-qPCR kit	Cryptosporidium spp.
14	LAPM-014	Opti Cma / Ttm / Oin / Emo Multi-qPCR kit	Chilomastix spp. / Tritrichomonas spp. / Octomitus intestinalis / Entamoeba spp.
15	LAPM-015	Opti Sob / Smu / Ate / Ei Multi-qPCR kit	Syphacia obvelata / Syphacia muris / Aspiculuris tetraptera / Eimeria spp.
16	LAPM-016	Opti Gmu / Smu / Hm / Csp Multi-qPCR kit	Giardia muris / Spironucleus muris / Hexamita spp. / Cryptosporidium spp.

Lab. Animal - Virus

No.	Cat. No.	Product	Description
01	LAVS-001	Opti MHV-qPCR kit	Mouse hepatitis virus
02	LAVS-002	Opti SeV-qPCR kit	Sendai virus
03	LAVS-003	Opti MNV-qPCR kit	Murine norovirus
04	LAVS-004	Opti RTV-qPCR kit	Rat theilovirus
05	LAVS-005	Opti SV5-qPCR kit	Simian virus 5 (Parainfluenza virus 5)
06	LAVS-006	Opti PVM-qPCR kit	Pneumonia virus of mice
07	LAVS-007	Opti MAV1-qPCR kit	Mouse Adenovirus type 1
08	LAVS-008	Opti GCMV-qPCR kit	Guinea pig Cytomegalovirus
09	LAVS-009	Opti LCMV-qPCR kit	Guinea pig Lymphocytic choriomeningitis virus
10	LAVS-010	Opti Reo-3-qPCR kit	Reovirus 3
11	LAVS-011	Opti RHDV-qPCR kit	Rabbit hemorrhagic disease virus
12	LAVS-012	Opti RRV-qPCR kit	Rabbit rotavirus
13	LAVS-013	Opti MV-qPCR kit	Myxoma virus
14	LAVS-014	Opti RPV-qPCR kit	Rabbit poxvirus
15	LAVS-015	Opti MVM-qPCR kit	Mouse minute virus
16	LAVM-016	Opti SeV / MP / Rpn / Rhey Multi-qPCR kit	Sendai virus / Mycoplasma spp. / R. pneumotropicus / R. heylii
17	LAVM-017	Opti MHV / MNV / Sal / Hel Multi-qPCR kit	Mouse hepatitis virus / Murine norovirus / Salmonella spp. / Helicobacter spp.
18	LAVM-018	Opti SeV / LCMV / BB / PM Multi-qPCR kit	Sendai virus / Guinea pig Lymphocytic choriomeningitis virus / B. bronchiseptica / P. multocida
19	LAVS-019	Opti MTV-qPCR kit	Mouse thymic virus
20	LAVM-020	Opti HTNV / SEOV / TMEV / Reo-3 Multi-qPCR kit	Hantaan virus / Seoul virus / Theiler's murine encephalomyelitis virus / Reovirus 3
21	LAVS-021	Opti HTNV-qPCR kit	Hantaan virus
22	LAVS-022	Opti SEOV-qPCR kit	Seoul virus
23	LAVS-023	Opti TMEV-qPCR kit	Theiler's murine encephalomyelitis virus
24	LAVS-024	Opti MPV-qPCR kit	Mouse parvovirus
25	LAVS-025	Opti MAV2-qPCR kit	Mouse Adenovirus type 2
26	LAVM-026	Opti MPV / MVM / MAV1 / MAV2 Multi-qPCR kit	Mouse parvovirus / Mouse minute virus / Mouse Adenovirus type 1, 2

OPTIPHARM's Food Kit

Food - Bacteria

No.	Cat. No.	Product	Description
01	FOBS-001	Opti Bacillus cereus-qPCR kit	Bacillus cereus
02	FOBS-002	Opti Campylobacter coli-qPCR kit	Campylobacter coli
03	FOBS-003	Opti Campylobacter jejuni-qPCR kit	Campylobacter jejuni
04	FOBS-004	Opti Clostridium perfringens -qPCR kit	Clostridium perfringens
05	FOBS-005	Opti Escherichia coli-qPCR kit	Escherichia coli
06	FOBS-006	Opti Listeria monocytogenes -qPCR kit	Listeria monocytogenes
07	FOBS-007	Opti Salmonella-qPCR kit	Salmonella spp.
08	FOBS-008	Opti Staphylococcus aureus-qPCR kit	Staphylococcus aureus
09	FOBS-009	Opti Salmonella enteritidis-qPCR kit	Salmonella enteritidis
10	FOBS-010	Opti Shigella-qPCR kit	Shigella spp.
11	FOBS-011	Opti Salmonella typhimurium-qPCR kit	Salmonella typhimurium
12	FOBS-012	Opti Yersinia enterocolitica-qPCR kit	Yersinia enterocolitica
13	FOBS-013	Opti Salmonella Albany-qPCR kit	Salmonella Albany
14	FOBS-014	Opti Salmonella Agona-qPCR kit	Salmonella Agona
15	FOBS-015	Opti Salmonella Bareilly-qPCR kit	Salmonella Bareilly
16	FOBS-016	Opti Salmonella Braenderup-qPCR kit	Salmonella Braenderup
17	FOBS-017	Opti Salmonella Hardar-qPCR kit	Salmonella Hardar
18	FOBS-018	Opti Salmonella Kentucky-qPCR kit	Salmonella Kentucky
19	FOBS-019	Opti Salmonella Montevideo-qPCR kit	Salmonella Montevideo
20	FOBS-020	Opti Salmonella Senftenberg-qPCR kit	Salmonella Senftenberg
21	FOBS-021	Opti Salmonella Thompson-qPCR kit	Salmonella Thompson
22	FOBS-022	Opti Salmonella Virchow-qPCR kit	Salmonella Virchow
23	FOBM-023	Opti Sal-2plex 1 Multi-qPCR kit	Salmonella spp. / S.virchow
24	FOBM-024	Opti Sal-2plex 2 Multi-qPCR kit	Salmonella albania / S.senftenberg
25	FOBM-025	Opti Sal-3plex 1 Multi-qPCR kit	Salmonella spp. / S.enteritidis / S.typhimurium
26	FOBM-026	Opti Sal-3plex 2 Multi-qPCR kit	Salmonella agona / S.montevideo / S.kentucky
27	FOBM-027	Opti Sal-4plex 1 Multi-qPCR kit	Salmonella spp. / S.enteritidis / S.typhimurium / S.thompson
28	FOBM-028	Opti Sal-4plex 2 Multi-qPCR kit	Salmonella enteritidis / S.infantis / S.hadar / S.typhimurium
29	FOBM-029	Opti Sal-4plex 3 Multi-qPCR kit	Salmonella enteritidis / S.infantis / S.hadar / S.virchow
30	FOBM-030	Opti Sal-4plex 4 Multi-qPCR kit	Salmonella enteritidis / S.infantis / S.agona / S.montevideo
31	FOBM-031	Opti Sal-4plex 5 Multi-qPCR kit	Salmonella agona / S.montevideo / S.kentucky / S.braenderup
32	FOBM-032	Opti Sal-4plex 6 Multi-qPCR kit	Salmonella agona / S.montevideo / S.kentucky / S.albania
33	FOBM-033	Opti Sal-4plex 7 Multi-qPCR kit	Salmonella bareilly / S.infantis / S.hadar / S.virchow
34	FOBM-034	Opti Sal-4plex 8 Multi-qPCR kit	Salmonella gallinarum / pullorum / S.infantis / S.hadar / S.virchow
35	FOBM-035	Opti CP toxin I Multi-qPCR kit	Clostridium perfringens alpha toxin (CPA) / Beta toxin (CPB) / Enterotoxin (CPE)

No.	Cat. No.	Product	Description
36	FOBM-036	Opti CP toxin II Multi-qPCR kit	Clostridium perfringens lota (iap) toxin / Epsilon (etx) toxin / NetB toxin
37	FOBM-037	Opti Food-I Multi-qPCR kit	EHEC (VT1, VT2) / Salmonella spp. / Yersinia enterocolitica
38	FOBM-038	Opti Food-II Multi-qPCR kit	Staphylococcus aureus / Shigella spp. / Bacillus cereus
39	FOBM-039	Opti Food-III Multi-qPCR kit	Clostridium perfringens / Campylobacter jejuni / Campylobacter coli / Listeria monocytogenes

Food - Enteric Escherichia Coli

No.	Cat. No.	Product	Description
01	ECBM-001	Opti EHEC-I Multi-qPCR kit	Enterohemorrhagic Escherichia coli (VT1, VT2)
02	ECBM-002	Opti STEC Multi-qPCR kit	Shiga toxin-producing Escherichia coli (Stx2e, F18)
03	ECBM-003	Opti EPEC Multi-qPCR kit	Enteropathogenic Escherichia coli (bfpA, EaeA)
04	ECBM-004	Opti EPEC / STEC Multi-qPCR kit	Enteropathogenic Escherichia coli (bfpA, EaeA) / Shiga toxin-producing Escherichia coli (Stx2e, F18)
05	ECBM-005	Opti ETEC-I Multi-qPCR kit	Enterotoxigenic Escherichia coli I (LT, ST, EAST1)
06	ECBM-006	Opti ETEC-II Multi-qPCR kit	Enterotoxigenic Escherichia coli II (F4,F5,F6,F41)

OPTIPHARM

Optimal Automated Nucleic Acid Purification System

OP16 & OP48

Maximized DNA & RNA
Extraction Efficiency

16

Any Sample

Animal, Plant,
Aquatic Sample etc.



Fast

Fast & Easy Extraction
with High Quality



All in One

All-In-One Type
on the Touchscreen



Compact

Compact Size &
Sensory Design



OP48

Extract up to 48 samples
at once (For OP48 model only)

OP16

Extract up to 16 samples
at once (For OP16 model only)

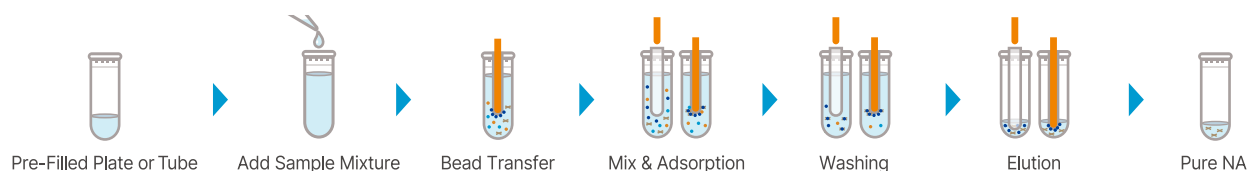
Product Information

- Optimal Automated Nucleic Acid Purification System with a Refined Design

Product Name	OP16 Nucleic Acid Purification System	OP48 Nucleic Acid Purification System
Catalog Number	OP16	OP48
Sample Capacity	1 ~ 16 Samples	1 ~ 48 Samples
Sample Volume	Varies by kit	
Processing Volume	60 ~ 1,000 uL	
Extraction Method	Magnetic bead-based extraction	
Operating system	Android OS	
Display	7" Full-Color LCD Touchscreen	10" Full-Color LCD Touchscreen
Rated voltage	100 ~ 240 VAC (50 / 60 Hz) / 500 W	100 ~ 240 VAC (50 / 60 Hz)
Product weight	8.6 kg	35 kg
Product size	326 × 229 × 310 mm	480 × 530 × 490 mm

Nucleic Acid Extraction Using Magnetic Beads

- Magnetic beads can be used to selectively extract the desired nucleic acid quickly and easily.



OPmag Nucleic Acid Extraction Kits

- Available in various configurations to fit your samples and instruments

Product Name	96-Well Plate Type Kit		Individual Tube Type Kit	
	Packaging Unit	Catalog No.	Packaging Unit	Catalog No.
OPmag™ DNA Clinical II	64 / 192	M0101 / M0102	32 / 96	M0160 / M0161
OPmag™ DNA Clinical	64 / 192	M1101 / M1102	32 / 96	M1160 / M1161
OPmag™ Blood DNA	64 / 192	M1201 / M1202	32 / 96	M1260 / M1261
OPDx™ Mag NA	64 / 192	M1304 / M1312	32 / 96	M1360 / M1361
OPmag™ Total DNA	64 / 192	M1401 / M1402	32 / 96	M1460 / M1461
OPmag™ Viral NA II	64 / 192	M1501 / M1502	32 / 96	M1560 / M1561
OPmag™ Cell DNA	64 / 192	M1701 / M1702	32 / 96	M1760 / M1761
OPmag™ Bacterial DNA MM	64 / 192	M1801 / M1802	32 / 96	M1860 / M1861
OPmag™ Fecal DNA MM	64 / 192	M1901 / M1902	32 / 96	M1960 / M1961
OPmag™ Soil DNA MM	64 / 192	M2001 / M2002	32 / 96	M2060 / M2061
OPmag™ Plant DNA	64 / 192	M2101 / M2102	32 / 96	M2160 / M2161
OPmag™ Seeds and Bulbs DNA	64 / 192	M2201 / M2202	32 / 96	M2260 / M2261
OPmag™ Fungal DNA MM	64 / 192	M2301 / M2302	32 / 96	M2360 / M2361
OPmag™ VPT-1	64 / 192	M3001 / M3002	32 / 96	M3060 / M3061
OPmag™ RNA Clinical	64 / 192	M4001 / M4002	32 / 96	M4060 / M4061
OPmag™ RNA Clinical plus	64 / 192	M4101 / M4102	32 / 96	M4160 / M4161
OPmag™ Plant RNA	64 / 192	M4201 / M4202	32 / 96	M4260 / M4261
OPmag™ Plant RNA plus	64 / 192	M4301 / M4302	32 / 96	M4360 / M4361
OPmag™ RNaid	64 / 192	M4401 / M4402	32 / 96	M4460 / M4461
OPmag™ Wood RNA	64 / 192	M4501 / M4502	32 / 96	M4560 / M4561
OPmag™ Seed RNA	64 / 192	M4601 / M4602	32 / 96	M4660 / M4661
OPmag™ Total RNA	64 / 192	M4701 / M4702	32 / 96	M4760 / M4761
OPmag™ Cell RNA	64 / 192	M4801 / M4802	32 / 96	M4860 / M4861
OPmag™ Bacterial / Yeast RNA MM	64 / 192	M4901 / M4902	32 / 96	M4960 / M4961
OPmag™ Plasmid DNA	64 / 192	M8001 / M8002	32 / 96	M8060 / M8061
OPmag™ DNA CleanUp	64 / 192	M8101 / M8102	32 / 96	M8160 / M8161
OPmag™ VPT-Vet	64 / 192	C0601 / C0602	32 / 96	C0660 / C0661
OPmag™ DNA Sporozoa	64 / 192	C0501 / C0502	32 / 96	C0560 / C0561