

What is Conventional PCR?

Polymerase chain reaction (PCR) is an enzymatic DNA amplification process that selectively amplifies a particular segment of DNA *in vitro*. PCR is very sensitive and specific as it can amplify a single DNA molecule to millions of DNA molecule in very short time and it can selectively amplify a particular segment of DNA even with the presence of mixture DNA from different organisms.

Conventional PCR is end-point analysis, where agarose gel electrophoresis is required to determine the size of PCR product.



APSN PCR Detection Test Kit



APSN Conventional PCR Detection Test Kits:

Avian

Newcastle Disease Virus (NDV)
Infectious Bronchitis Virus (793/B/ D274/ Massachusetts)
Infectious Bursal Disease Virus (IBDV)
Chicken Anaemia Virus (CAV)
Reovirus (REO)
Swollen Head Syndrome (Type A/Type B)
Mycoplasma gallisepticum/*Mycoplasma synoviae* (MG/MS)
Infectious Laryngotracheitis (ILT)
Multiplex VRE - vanA/ vanB/ vanC
Adenovirus

Porcine

Porcine Circovirus - Type 1/Type 2/Parvovirus (PCV1/PCV2/PPV)
Porcine Reproductive & Respiratory Syndrome Virus (PRRSV)

Equine

Streptococcus equi/ Strangles



Foodborne pathogens

Campylobacter spp.
Listeria monocytogenes
Salmonella spp.
Staphylococcus aureus

Halal Verification

Detection of Porcine Derivaties (Halal Verification)

Aquaculture

Edwardsiella tarda
White spot syndrome virus
Infectious hypodermal & hematopoietic necrosis virus
Taura syndrome virus
Monodon Baculovirus
Yellow-head virus
Aeromonas hydrophila



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What is Real-Time PCR?

Real-time PCR is the advance version of conventional PCR. Real-time PCR allow both the enzymatic PCR process itself and detection of the PCR product occur in the same reactioin vessel. Real-time PCR uses fluorescence dye (SYBR Green I, TaqMan probe, etc.) Measurement of fluorescence at every PCR cycle allows the product accumulation to be displayed on a plotted curve. The amount of fluorescence is proportional to the amount of PCR product in the reaction vessel. If a specific target DNA is present in a sample, the time it takes or number of cycles will generate a detectable signal. Use of this cycle number information enables easy DNA analysis.

APSN Real-Time PCR Detection Kits:

Avian

Newcastle Disease Virus (NDV)
Infectious Bronchitis Virus (IBV)
Infectious Bursal Disease Virus (IBDV)
Reovirus (REO)
Egg Drop Syndrome Virus (EDS)
Mycoplasma gallisepticum (MG)
Mycoplasma synoviae (MS)
Avian Influenza Virus - H5N1
VRE - vanA/ vanB/ vanC
Marek's Disease Virus Serotype 1, 2, 3
Multiplex MRSA (mecA) & VRE (vanA)
Avian metapneumovirus (APV)
Pasteurella multocida (Fowl Cholera)

Porcine

Porcine Circovirus Type 2 (PCV 2)
Swine Influenza Virus - H1N1
Swine Influenza Virus - H3N2
Actinobacillus pleuropneumoniae

Canine

Microsporium canis

Bovine

Streptococcus bovis

Equine

Rhodococcus equi
Strep equi subsp equi

Aquaculture

Edwardsiella tarda
White spot syndrome virus
Infectious hypodermal & hematopietic necrosis virus
Taura syndrome virus
Monodon Baculovirus
Yellow-head virus
Aeromonas hydrophila

Foodborne pathogens

Listeria monocytogenes
Listeria ivanovii
Listeria innocua
Listeria welshimeri
Listeria seelegeri
Listeria grayi
Campylobacter jejuni
Campylobacter coli
Aspergillus niger
Aspergillus oryzae
Aspergillus ustus
Klebsiella oxytoca
Pseudomonas aeruginosa
Fusarium solani
Citrobacter freundii
Bacillus cereus
Cronobacter sakazakii
Yersinia enterocolitica

Tick-borne disease

Bordetella pertussis
Bordetella parapertussis

GMO testing

GMO Round Up Soy

Water quality

Legionella pneumophilla

DIVA assay (Differentiation of true Infection versus Vaccine Acquired disease)

Reovirus (REO)
Newcastle Disease Virus (NDV)
Infectious Bursal Disease Virus (IBDV)
Avian metapneumovirus (APV)
Porcine Circovirus Type 2 (PCV 2)

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