

qPCR test kits food, water and agriculture

qPCR testing methods are proven to be the fastest and most accurate way for screening water and food.

We offer highly sensitive kits for food borne pathogens, agriculture, meat and fish speciation, allergen testing and water contaminants.

- ✓ Pathogen contamination
- ✓ Speciation
- ✓ Allergen
- ✓ Others

Pathogen detection		
Name	Product code	Kit format version
Alpha toxin producing Clostridium perfringens	Z-Path-C.perfringens_cpa	Advanced
	Z-Path-C.perfringens_cpa-EASY	Easy
	Z-Path-C.perfringens_cpa-std	Standard
Aspergillus species	Z-Path-Asp	Advanced
	Z-Path-Asp-EASY	Easy
	Z-Path-Asp-std	Standard
Bacillus cereus E33	Z-Path-B.cereus E33	Advanced
Brucella abortus	Z-Path-B.abortus	Advanced
	Z-Path-B.abortus-EASY	Easy
	Z-Path-B.abortus-std	Standard
Brucella genus (all species)	Z-Path-Brucella	Advanced
	Z-Path-Brucella-EASY	Easy
	Z-Path-Brucella-std	Standard
Campylobacter Coli	Z-Path-C.Coli	Advanced
	Z-Path-C.Coli-EASY	Easy
	Z-Path-C.Coli-std	Standard
Campylobacter Jejuni	Z-Path-C.jejuni	Advanced
	Z-Path-C.jejuni-EASY	Easy
	Z-Path-C.jejuni-std	Standard
Campylobacter coli and Campylobacter jejuni	Z-Path-C.coli/C.jejuni	Advanced
	Z-Path-C.coli/C.jejuni-EASY	Easy
	Z-Path-C.coli/C.jejuni-std	Standard
Clostridium botulinum toxin D	Z-Path-C.botulinum_toxD	Advanced
	Z-Path-C.botulinum_toxD-std	Standard
Clostridium difficile (toxin A)	Z-Path-C.difficile_toxA	Advanced
	Z-Path-C.difficile_toxA-std	Standard
Clostridium difficile (toxin B)	R00961	Advanced
	R00962	Easy
	R01026	Standard

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Pathogen detection - <i>continued</i>		
Name	Product code	Kit format version
Clostridium estertheticum	Z-Path-C.estertheticum	Advanced
	Z-Path-C.estertheticum-EASY	Easy
	Z-Path-C.estertheticum-std	Standard
Coxiella burnetii	Z-Path-C.burnetii	Advanced
	Z-Path-C.burnetii-EASY	Easy
	Z-Path-C.burnetii-std	Standard
Crimean-Congo Haemorrhagic Fever Virus	Z-Path-CCHFV	Advanced
	Z-Path-CCHFV-std	Standard
Cryptosporidium parvum	Z-Path-C.parvum	Advanced
	Z-Path-C.parvum-std	Standard
Entamoeba histolytica	Z-Path-E.histolytica	Advanced
	Z-Path-E.histolytica-EASY	Easy
	Z-Path-E.histolytica-std	Standard
Enterococcus faecalis	Z-Path-E.faecalis	Advanced
	Z-Path-E.faecalis-EASY	Easy
	Z-Path-E.faecalis-std	Standard
Enterococcus faecium	R00967	Advanced
	R00968	Easy
	R01009	Standard
Enterohemorrhagic Escherichia coli	Z-Path-EHEC	Advanced
	Z-Path-EHEC-std	Standard
Enteroinvasive Escherichia coli	Z-Path-EIEC	Advanced
	Z-Path-EIEC-std	Standard
Enteropathogenic Escherichia coli	Z-Path-EPEC	Advanced
	Z-Path-EPEC-EASY	Easy
	Z-Path-EPEC-std	Standard
Enterotoxigenic Escherichia coli	Z-Path-ETEC	Advanced
	Z-Path-ETEC-EASY	Easy
	Z-Path-ETEC-std	Standard
Escherichia coli (all strains)	Z-Path-E.coli_spp	Advanced
	Z-Path-E.coli_spp-EASY	Easy
	Z-Path-E.coli_spp-std	Standard
Escherichia coli O157:H7	Z-Path-E.coli_O157-v2.0	Advanced
	Z-Path-E.coli_O157-EASY-v2.0	Easy
	Z-Path-E.coli_O157-std-v2.0	Standard
Escherichia coli O104:H4	Z-Path-E.coli_O104:H4	Advanced
Francisella tularensis	Z-Path-F.tularensis	Advanced
	Z-Path-F.tularensis-EASY	Easy
	Z-Path-F.tularensis-std	Standard
Giardia intestinalis (human infections)	Z-Path-G.intestinalis	Advanced
	Z-Path-G.intestinalis-EASY	Easy
	Z-Path-G.intestinalis-std	Standard
Hepatitis A Virus	Z-Path-HAV	Advanced
	Z-Path-HAV-EASY	Easy
	Z-Path-HAV-std	Standard

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Pathogen detection - <i>continued</i>		
Name	Product code	Kit format version
Hepatitis E Virus	Z-Path-HEV	Advanced
	Z-Path-HEV-EASY	Easy
	Z-Path-HEV-std	Standard
Human Astrovirus 1-8	Z-Path-HAstV1-8	Advanced
	Z-Path-HAstV1-8-std	Easy
JC virus	R00969	Advanced
	R00970	Easy
	R01010	Standard
Legionella longbeachae	Z-Path-L.longbeachae	Advanced
	Z-Path-L.longbeachae-std	Standard
Legionella pneumophila	Z-Path-L.pneumophila-v1.1	Advanced
	Z-Path-L.pneumophila-v1.1-EASY	Easy
	Z-Path-L.pneumophila-v1.1-std	Standard
Legionella species	Z-Path-Legionella_spp	Advanced
	R01030	Easy
	Z-Path-Legionella_spp-std	Standard
Listeria monocytogenes	Z-Path-L.monocytogenes	Advanced
	Z-Path-L.monocytogenes-EASY	Easy
	Z-Path-L.monocytogenes-std	Standard
Mycobacterium avium subspecies paratuberculosis	Z-Path-Map	Advanced
	Z-Path-Map-EASY	Easy
	Z-Path-Map-std	Standard
Naegleria species	Z-Path-Naegleria_spp	Advanced
	Z-Path-Naegleria_spp-std	Standard
Norovirus genogroups I and II	Z-Path-Norovirus	Advanced
	Z-Path-Norovirus-EASY	Easy
	Z-Path-Norovirus-std	Standard
Pathogenic Salmonella species	Z-Path-Salmonella_invA	Advanced
	Z-Path-Salmonella_invA-EASY	Easy
	Z-Path-Salmonella_invA-std	Standard
Pseudomonas aeruginosa	Z-Path-P.aeruginosa	Advanced
	Z-Path-P.aeruginosa-EASY	Easy
	Z-Path-P.aeruginosa-std	Standard
Human Rotavirus A	Z-Path-Human RotavirusA	Advanced
	Z-Path-Human RotavirusA-std	Standard
Human Rotavirus B	Z-Path-Human RotavirusB	Advanced
	Z-Path-Human RotavirusB-std	Standard
Human Rotavirus C	Z-Path-Human RotavirusC	Advanced
	Z-Path-Human RotavirusC-std	Standard
Salmonella enterica	Z-Path-S.enterica	Advanced
	Z-Path-S.enterica-EASY	Easy
	Z-Path-S.enterica-std	Standard
Shiga toxin (stx1) producing Escherichia coli	Z-Path-E.coli_stx1	Advanced
	Z-Path-E.coli_stx1-std	Standard
Shiga toxin (stx2A) producing Escherichia coli	Z-Path-E.coli_stx2A	Advanced
	Z-Path-E.coli_stx2A-std	Standard
Shiga toxin (stx2f) producing Escherichia coli	Z-Path-E.coli_stx2f	Advanced
	Z-Path-E.coli_stx2f-std	Standard

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Pathogen detection - <i>continued</i>		
Name	Product code	Kit format version
Shigella (all species)	Z-Path-Shigella_spp	Advanced
	Z-Path-Shigella_spp-EASY	Easy
	Z-Path-Shigella_spp-std	Standard
Staphylococcus aureus	Z-Path-S.aureus	Advanced
	Z-Path-S.aureus-EASY	Easy
	Z-Path-S.aureus-std	Standard
Toxigenic subspecies of Vibrio cholerae	Z-Path-V.cholerae	Advanced
	Z-Path-V.cholerae-EASY	Easy
Vibrio species	Z-Path-Vibrio_spp	Advanced
	Z-Path-Vibrio_spp-EASY	Easy
	Z-Path-Vibrio_spp-std	Standard
Propionibacterium acnes	Z-Path-P.acnes	Advanced
	Z-Path-P.acnes-std	Standard
Yersinia enterocolitica	Z-Path-Y.enterocolitica	Advanced
	Z-Path-Y.enterocolitica-EASY	Easy
	Z-Path-Y.enterocolitica-std	Standard



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qPCR kits Speciation

Speciation	Easy AnimalFinder Kit	Easy Speciation Kit	Standard Speciation Kit	Advanced Speciation Kit
qPCR platform compatibility	genesig™ q16/q32	genesig™ q32 and open platform instruments		
Target species primer and probe mix	Y	Y	Y	Y
Positive control	Y	Y	Y	Y
Negative control	Y	Y	Y	Y
Internal extraction control (IEC) primer and probe mix	Y	-	Y	-
Universal meat/fish primer and probe mix	-	Y	-	Y
Lyophilised Master Mix	Y	Y	-	-
Reaction tubes	Y	Y	-	-
Resuspension buffers	Y	Y	Y	Y
Kit size (tests)	50	50	100	100

Select the optimal kit for your sample and application

Sample type	Application	genesig™ Easy AnimalFINDER Kit	genesig™ Easy Speciation Kit	genesig™ Advanced Speciation Kit	genesig™ Standard Speciation Kit
Pharmaceutical sample Cosmetic sample Food manufacture post-clean swab Vegan/Vegetarian food products	Identification of source animal	+++	-	-	+++
Highly processed animal product	Identification of source animal	+++	+	+	+++
	Quantification of potential adulteration	-	++	++	-
Raw/Cooked meat	Identification of source animal	+++	+++	+++	+++
	Quantification of potential adulteration	-	+++	+++	-

+++ Highly suitable ++ Suitable + Suitability is sample dependent - Not suitable

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Meat speciation kits		
Name	Product code	Kit format version
Beef	Z-Path-SS-B.taurus-Adv	Advanced
	Z-Path-SS-B.taurus-EASY	Easy
	Z-Path-SS-B.taurus	Standard
Buffalo	Z-Path-SS-B.bubalis-Adv	Advanced
	Z-Path-SS-B.bubalis-EASY	Easy
	Z-Path-SS-B.bubalis	Standard
Cat	Z-Path-SS-F.catus-EASY	Easy
Chicken	Z-Path-SS-G.gallus-Adv	Advanced
	Z-Path-SS-G.gallus-EASY	Easy
	Z-Path-SS-G.gallus	Standard
Dog	Z-Path-SS-C.familiaris-Adv	Advanced
	Z-Path-SS-C.familiaris-EASY	Easy
	Z-Path-SS-C.familiaris	Standard
Donkey	Z-Path-SS-E.asinus-Adv	Advanced
	Z-Path-SS-E.asinus-EASY	Easy
	Z-Path-SS-E.asinus	Standard
Duck	Z-Path-SS-A.platyrrhynchos-Adv	Advanced
	Z-Path-SS-A.platyrrhynchos-EASY	Easy
	Z-Path-SS-A.platyrrhynchos	Standard
Goat	Z-Path-SS-C.hircus-Adv	Advanced
	Z-Path-SS-C.hircus-EASY	Easy
	Z-Path-SS-C.hircus	Standard
Horse	Z-Path-SS-E.caballus-Adv	Advanced
	Z-Path-SS-E.caballus-EASY	Easy
	Z-Path-SS-E.caballus	Standard
Platypus	Z-Path-SS-O.anatinus	Standard
Pork	Z-Path-SS-S.scrofa-Adv	Advanced
	Z-Path-SS-S.scrofa-EASY	Easy
	Z-Path-SS-S.scrofa	Standard
Sheep	Z-Path-SS-O.aries-Adv	Advanced
	Z-Path-SS-O.aries-EASY	Easy
	Z-Path-SS-O.aries	Standard
Turkey	Z-Path-SS-M.gallopavo-Adv	Advanced
	Z-Path-SS-M.gallopavo-EASY	Easy
	Z-Path-SS-M.gallopavo	Standard
Universal Meat	Z-Path-SS-uni-meat	Standard
Venison	Z-Path-SS-Venison-EASY	Easy
	Z-Path-SS-Venison	Standard
Warthog	Z-Path-SS-P.africanus	Standard

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Fish speciation kits		
Name	Product code	Kit format version
Atlantic cod	Z-Path-SS-G.morhua-EASY	Easy
Coley	Z-Path-SS-P.virens-EASY	Easy
Haddock	Z-Path-SS-M.aeglefinus-EASY	Easy
Pollock	Z-Path-SS-P.pollachius-EASY	Easy
Universal Fish	Z-Path-SS-uni-fish-V2.0	Standard
Whiting	Z-Path-SS-M.merlangus-EASY	Easy

AnimalFINDER kits		
Chicken	Z-Path-AF-G.gallus-EASY	Easy
Cow	Z-Path-AF-B.taurus-EASY	Easy
Horse	Z-Path-AF-E.caballus-EASY	Easy
Pig	Z-Path-AF-S.scrofa-EASY	Easy
Sheep	Z-Path-AF-O.aries-EASY	Easy
Universal meat	Z-Path-AF-uni-meat-EASY	Easy

Allergen		
Celery: apium graveolens	Z-Path-SS-A.graveolens-EASY	Easy
	Z-Path-SS-A.graveolens	Standard
Peanut: Arachis hypogaea	Z-Path-SS-A.hypogaea-EASY	Easy

Others		
Acetobacter species	R00022	Easy
Bifidobacterium bifidum	Z-Path-B.bifidum-EASY	Easy
Botrytis cinerea	Z-Path-B.cinerea	Advanced
	Z-Path-B.cinerea-EASY	Easy
Clavibacter michiganensis subspecies michiganensis	Z-Path-Cmm	Advanced
	Z-Path-Cmm-EASY	Easy
	Z-Path-Cmm-std	Standard
Candidatus Liberibacter asiaticus	Z-Path-C.L.Asiaticus	Advanced
	Z-Path-C.L.Asiaticus-EASY	Easy
	Z-Path-C.L.Asiaticus-std	Standard
Clostridium sporogenes	Z-Path-C.sporogenes	Advanced
	Z-Path-C.sporogenes-std	Standard
Dekkera bruxellensis	Z-Path-D.bruxellensis	Advanced
	Z-Path-D.bruxellensis-EASY	Easy
Epicoccum nigrum	Z-Path-E.nigrum	Advanced
	Z-Path-E.nigrum-std	Easy
Eubacteria	Z-Path-Eubacteria	Advanced
	Z-Path-Eubacteria-EASY	Easy
	Z-Path-Eubacteria-std	Standard
Fusarium species	Z-Path-Fusarium_spp	Advanced
	Z-Path-Fusarium_spp-EASY	Easy
	Z-Path-Fusarium_spp-std	Standard
Geobacillus stearothermophilus	Z-Path-G.stearothermoph	Advanced
	Z-Path-G.stearothermoph-std	Standard

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Others - continued		
Name	Product code	Kit format version
	Z-Path-G.stearothermoph-std	Standard
Hop resistant Lactobacillus and Pediococcus species	Z-Path-HorA/HorC	Advanced
	Z-Path-HorA/HorC-EASY	Easy
	Z-Path-HorA/HorC-std	Standard
Lactobacillus acidophilus	Z-Path-L.acidophilus	Advanced
	Z-Path-L.acidophilus-EASY	Easy
	Z-Path-L.acidophilus-std	Standard
Lactococcus lactis	Z-Path-L.lactis	Advanced
	Z-Path-L.lactis-std	Standard
Maize chlorotic mottle virus	Z-Path-MCMV	Advanced
	Z-Path-MCMV-std	Standard
Maize mosaic nucleorhabdovirus	Z-Path-MMV	Advanced
	Z-Path-MMV-std	Standard
Megasphaera cerevisiae/ Megasphaera elsdenii	Z-Path-M.cerevi/M.elsden	Advanced
	Z-Path-M.cerevi/M.elsden-EASY	Easy
	Z-Path-M.cerevi/M.elsden-std	Standard
Nitrosomonas eutropha	Z-Path-N.eutropha	Advanced
Nitrosomonas marina	Z-Path-N.marina	Advanced
Pectinatus Genus/Species	Z-Path-Pectinatus_spp	Advanced
	Z-Path-Pectinatus_spp-EASY	Easy
	Z-Path-Pectinatus_spp-std	Standard
Pediococcus genus/species	Z-Path-Pediococcus_spp	Advanced
	Z-Path-Pediococcus_spp-EASY	Easy
	Z-Path-Pediococcus_spp-std	Standard
Pichia kudriavzevii	Z-Path-P.kudriavzevii	Advanced
	Z-Path-P.kudriavzevii-std	Standard
Potato mop-top virus	Z-Path-PMTV	Advanced
	Z-Path-PMTV-EASY	Easy
	Z-Path-PMTV-std	Standard
Saccharomyces cerevisiae	Z-Path-S.cerevisiae	Advanced
	Z-Path-S.cerevisiae-EASY	Easy
	Z-Path-S.cerevisiae-std	Standard
Saccharomyces cerevisiae variety diastaticus	Z-Path-S.diastaticus-EASY	Easy
Spiroplasma citri	Z-Path-S.citri	Advanced
	Z-Path-S.citri-std	Standard
Spongospora subterranea f. sp. Subterranea	Z-Path-S.subterranea	Advanced
	Z-Path-S.subterranea-EASY	Easy
	Z-Path-S.subterranea-std	Standard
Staphylococcus aureus	Z-Path-S.aureus	Advanced
	Z-Path-S.aureus-EASY	Easy
	Z-Path-S.aureus-std	Standard
Streptococcus sanguinis	Z-Path-S.sanguinis	Advanced
	Z-Path-S.sanguinis-std	Standard
Sugarcane mosaic virus	Z-Path-SCMV	Advanced
	Z-Path-SCMV-std	Standard

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Others - continued		
Name	Product code	Kit format version
Tellurite resistant Escherichia coli	Z-Path-E.coli_TeR	Advanced
	Z-Path-E.coli_TeR-std	Standard
Ureaplasma parvum	Z-Path-U.parvum	Advanced
	Z-Path-U.parvum-std	Standard
Vibrio cholerae all subspecies	Z-Path-V.cholerae_subsp	Advanced
	Z-Path-V.cholerae_subsp-EASY	Easy
	Z-Path-V.cholerae_subsp-std	Standard
Zygosaccharomyces bailii	Z-Path-Z.bailii	Advanced
Zygosaccharomyces rouxii	Z-Path-Z.rouxii-EASY	Easy
Zygosaccharomyces species	R00032	Easy

