

2023

Food Feed Water Environmental

# CATALOGUE

Testing products





## Read this catalogue if you **VALUE**

### PROMISE

Creating a great customer experience begins with staying true to the words we speak and the bonds we make.

### PASSION

Having a joy not just for the work itself but also the people around us, so that everyone can be bold, innovative, and creative.

### QUALITY

Companies are judged by the craftsmanship of their products and services, so the highest standards must be maintained.

### ACCOUNTABILITY

Accepting responsibility for is the ultimate way to build trust internally and externally.

### LEARNING

No one has all the answers. A culture of humility and continuous learning is a bedrock principle of successful companies.



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# Laboratory Set-up Equipment

Real-Time PCR Equipment	Code
bCUBE v2.0 Smartphone driven portable Real-Time PCR	BCUBE_1
bCUBE v3.0 Smartphone driven portable Real-Time PCR	BCUBE_1V3
bCUBE 16-wells cartridges 25 units	BCUBE_3
bCUBE 36-wells cartridges 25 units	BCUBE_5

Ancillary Equipment	Code
Mini PCR hood with laminar flow and UV lamp	ACC4095
Fixed speed minicentrifuge 7200 rpm for 8 microtubes (0.5 - 2 ml) and PCR strips	ACC1064
Variable speed minicentrifuge 15000 rpm for 12 microtubes (0.5 - 2 ml)	ACC1063
Variable speed vortex	ACC1003
Programmable interchangeable single block thermal shaker	ACC2300
Programmable interchangeable double block thermal shaker	ACC2301
ACC2300 and ACC2301 compatible block for 24 x 2 ml tubes	ACC2303
ACC2300 and ACC2301 compatible block for 6 x 50 ml tubes	ACC2302
Electronic 8-channels micropipette for volumes 50-1200 $\mu$ l	ACC2666
Vacuum Pump for ION-Force/Filtration ramp	ACC2908
Multistep electronic pipette range 1 $\mu$ L - 50 $\mu$ L	ACC1902 02
IONForce manifold	EXD010-P
3-branches vacuum manifold for liquids filtration	Rampa X3-1

# Nucleic Acids Extraction Kits

DNA/RNA extraction is of paramount importance in qPCR results.

Generon developed a portfolio of multiple extraction products to offer the customers the most convenient solution fitting their technical demands.

Product List	Code	Format
ION Force DNA Extractor FAST	EXD001	100 tests
MAG Force Core Beads 500	EXD330	15 ml bottle
ION Spin K DNA Prep One-for-All	EXD018K	50 tests
FASTfood Universal DNA extraction kit	EXD009/020	20 ml/100 ml
Viral/bacterial DNA/RNA extraction kit	EXD199	50 tests

Spare Extraction Reagents	Code	Format
ION/MAG Force Solution A	EXD003	500 ml bottle
ION/MAG Force Solution D	EXD004	20 ml bottle
ION/MAG Force Buffer T	EXD005	250 ml bottle
ION/MAG Force Buffer P	EXD006	50 ml bottle
ION/MAG Force Buffer E	EXD013E	100 ml bottle
MAG Force RNA Eraser 250	EXD340	1 ml tube
Proteinase K	EXD011	100 mg/vial
Proteinase K resuspension Buffer	EXD010	1 bottle
DNA/DNase free water for samples dilutions	ACC019P	40 ml
Reagent to remove dead bacteria DNA	EFT5123222301	96 tests

# PATHfinder

## Microbiology Kits

PATHfinder is the portfolio of products for the detection and identification of microbes relevant to food and water safety analysis using Real-Time PCR.

PATHfinder detection kits were developed upon peer reviewed scientific literature and ISO technical specifications.

**Each kit includes:** target specific reagents (primers and probes), Mastermix, diluent, negative control and positive control.

PATHfinder Real-Time PCR detection kits	50 Tests
<i>Salmonella</i> spp/IAC	PMB01A-50
FASTscreen <i>Salmonella</i> for feed ingredients with IAC	PMB01A-LLV
<i>Listeria monocytogenes</i> /IAC	PMB02A-50
[ <i>Salmonella</i> + <i>L.monocytogenes</i> ]/IAC	PMB64A-3-50
3-Plex <i>Salmonella</i> spp/ <i>L. monocytogenes</i> /IAC	PMB64A-1-50
<i>Listeria</i> spp/IAC	PMB03A-50
3-Plex <i>Listeria</i> spp and <i>Listeria monocytogenes</i> /IAC	PMB23A-50
4-Plex <i>Salmonella</i> spp/ <i>L. monocytogenes</i> / <i>Listeria</i> spp/IAC	PMB68A-50
4-Plex <i>Listeria</i> spp./ <i>L. innocua</i> / <i>L. grayi</i> /IAC	PMB24A-50
3-Plex <i>Listeria welshimeri</i> / <i>L. ivanovii</i> / <i>L. seeligeri</i> /IAC	PMB25A-50
Fully compliant to ISO-13136/EURL	
<i>E.coli</i> STEC (stx1)/IAC	PMB10A-V1-50
<i>E.coli</i> STEC (stx2)/IAC	PMB10A-V2-50
<i>E.coli</i> STEC (stx2f)/IAC	PMB10A-V2F-50
<i>E.coli</i> STEC (eae)/IAC	PMB10A-VE-50
Based on ISO-13136/EURL	
3-Plex <i>E.coli</i> STEC [stx1+stx2]/[eae]/IAC	PMB10M-50
4-Plex <i>E.coli</i> STEC [stx1]/[stx2]/[eae]/IAC	PMB10M-V1C2E-50
4-Plex <i>E.coli</i> STEC [stx1]/[stx2+stx2f]/[eae]/IAC	PMB10A-EFSA-50
2x2-Plex <i>E.coli</i> STEC [stx1]/[stx2]&[eae]/IAC	PMB10A-50*
2x2-Plex <i>E.coli</i> STEC [stx1+stx2]/[stx2 f]&[eae]/IAC	PMB10A-F-50*



# PATHfinder

## Microbiology Kits

### Salmonella, Listeria, STEC Combo kits based on ISO-13136/EURL

2x2-Plex [ <i>Salmonella</i> + <i>L.monocytogenes</i> ]/IAC& [stx1+stx2]/ [eae]	PMB64A-2-50*
2x3-Plex <i>Salmonella spp</i> / <i>L. monocytogenes</i> /IAC & [stx1+stx2]/[eae]/IAC	PMB64A-50*

\* 50+50 Tests

PATHfinder Real-Time PCR STEC serotyping kits fully compliant to ISO-13136/EURL	50 Tests
<i>E.coli</i> H:4 [fliC]/IAC	PMB10A-H4
<i>E.coli</i> H:7 [fliC]/IAC	PMB10A-H7
<i>E.coli</i> O:103 [wzx]/IAC	PMB10A-P103
<i>E.coli</i> O:104 [wzx]/IAC	PMB10A-P104
<i>E.coli</i> O:111 [wbdL]/IAC	PMB10A-P111
<i>E.coli</i> O:121 [wzx]/IAC	PMB10A-P121
<i>E.coli</i> O:145 [ihp1]/IAC	PMB10A-P145
<i>E.coli</i> O:157 [rfbE]/IAC	PMB10A-P157
<i>E.coli</i> O:26 [wzx]/IAC	PMB10A-P26
<i>E.coli</i> O:45 [wzx]/IAC	PMB10A-P45
<i>E.coli</i> STEC Big 7 serotyping [O157, O111, O26, O103, O145, O121, O45]/IAC strips	PMB10A-OST*
<i>E.coli</i> serotyping - [O157, O111, O26, O103, O145]/IAC strips	PMB10A-OST2*

### Solutions for Legionella fully compliant to ISO-12869

<i>Legionella spp</i> /IAC	PMB18A-50
<i>Legionella pneumophila</i> /IAC	PMB15A-50
<i>Legionella pneumophila</i> Serogroup 1/IAC	PMB15D-SG1-50

### Solutions for Legionella based on ISO-12869

3-Plex <i>Legionella spp</i> / <i>L.pneumophila</i> /IAC	PMB16A-50**
4-Plex <i>Legionella spp</i> / <i>L.pneumophila</i> / <i>L.pneumophila</i> SG1/IAC	PMB15D-SG-50
4-Plex <i>Legionella spp</i> / <i>L.pneumophila</i> / <i>L.pneumophila</i> SG1/IAC - Colony Ready	PMB15D-SG**
<i>Legionella pneumophila</i> SG1-Standard DNA for quantification	PMB15R***

\*12x8 Strips

\*\* 100 IDs

\*\*\* 120 µl

■ FAM

■ HEX

■ TxRed

■ Cy5

### Other targets

PATHfinder Real-Time PCR detection kits	50 Tests
<i>Pseudomonas aeruginosa</i> /IAC	PMB05A-50
<i>Staphylococcus aureus</i> /IAC	PMB11A-50
<i>Cronobacter</i> spp/IAC (acc. to FDA BAM Chapter 29)	PMB08A-50
<i>Giardia</i> /IAC	PMB41A-50
<i>Cryptosporidium</i> /IAC	PMB42A-50
3-Plex <i>Anisakis</i> / <i>Pseudoterranova</i> /IAC	PMB66A-50
<i>Brettanomyces</i> in wine products/IAC	PMB65A-50
<i>Alicyclobacillus</i> spp/IAC	PMB48A-50
<i>Alicyclobacillus acidoterrestris</i> /IAC	PMB48A-AT-50
2x2-Plex Guaiacol producing <i>Alicyclobacilli</i> /IAC & <i>A.Acidocaldarius</i>	PMB48A-G-50*
<i>Shigella</i> spp/IAC	PMB61A-50
<i>E.coli</i> (+ <i>Shigella</i> spp.)/IAC	PMB14A-50
3-Plex <i>Shigella</i> and <i>E.coli</i> colony isolates discrimination/IAC	PMB58A-50
4-Plex Pathogenic <i>Vibrio</i> - <i>parahaemolyticus</i> / <i>vulnificus</i> / <i>cholerae</i> /IAC	PMB13A-M-50
4-Plex <i>Vibrio parahemolyticus</i> (tlh) and virulence factors <i>tdh</i> / <i>trh</i> /IAC	PMB17A**
<i>Bacillus cereus</i> /IAC	PMB09A-50
3-Plex <i>Bacillus Cereus</i> group/ <i>cereulide gene</i> /IAC (acc. to ISO-7932)	PMB38A-50
Thermotolerant <i>Campylobacter</i> spp/IAC (acc. to ISO-10272)	PMB04A-50
4-Plex <i>Campylobacter jejuni</i> / <i>coli</i> / <i>lari</i> /IAC COMING SOON	PMB59A-50
<i>Clostridium botulinum</i> [A-G] Group/IAC	PMB44A-50
<i>Clostridium botulinum</i> Detection [A,B,E,F]/IAC (based on ISO-17919)	PMB67A-50
<i>Clostridium botulinum</i> Identification [A,B,E,F]/IAC (acc. to ISO-17919)	PMB67A-ID***
<i>Clostridium perfringens</i> /IAC	PMB06A-50
<i>Yersinia enterocolitica</i> /IAC (acc. to ISO-18867)	PMB07A-50
<i>Yersinia pseudotuberculosis</i> /IAC (acc. to ISO-18867)	PMB60A-50

\* 50+50 Tests

\*\* 50 Tests/100 IDs

\*\*\* 4 x50 Tests

# PATHfinder

## Microbiology Kits

PATHfinder SureXtra are heat inactivated bacterial pellets at known cell count ensuring a tight control of DNA extraction process yield.

SureXtra - Process control for PCR based	50 Vials
<i>Salmonella spp.*</i>	PMB01X
<i>Listeria spp and monocytogenes*</i>	PMB02X
<i>Bacillus cereus*</i>	PMB09X
<i>E.coli</i> VTEC stx2f*	PMB10X-F
<i>E.coli</i> VTEC (stx1+stx2+eae)*	PMB10X-M
<i>E.coli</i> O:103 detection kits*	PMB10X-P103
<i>E.coli</i> O:104 detection kits*	PMB10X-P104
<i>E.coli</i> O:111 detection kits*	PMB10X-P111
<i>E.coli</i> O:121 detection kits*	PMB10X-P121
<i>E.coli</i> O:145 detection kits*	PMB10X-P145
<i>E.coli</i> O:157 detection kits*	PMB10X-P157
<i>E.coli</i> O:26 detection kits*	PMB10X-P26
<i>E.coli</i> O:45 detection kits*	PMB10X-P45
<i>Staphylococcus aureus*</i>	PMB11X
<i>Clostridium botulinum*</i>	PMB44X
<i>Alicyclobacillus acidoterrestris*</i>	PMB48X-AT
<i>C. botulinum</i> (amplicon ISO-17919)*	PMB67X

\*Made to order

### Enrichment and confirmation media are available

Featuring	500 g
PolySkope PMEM-AOAC certified Salmonella, Listeria and STEC single broth enrichment	PSK_PMEM_500

■ FAM

■ HEX

■ TxRed

■ Cy5

# MODfinder GMO Kits

Generon developed multiple kits to provide a turn-key solution to test the presence of GMO, according to EURL and ISO indications. The portfolio includes all the reagents and controls to run the detection protocols.

**MODfinder Screening kits** detect the presence of GMOs in a DNA extract using typical markers.

**MODfinder Identification kits** detect the unique signature of a transformation event that is the junction at the integration locus between the recipient genome and the inserted DNA.

**Each kit includes:** Oligo Mix for GMO target, Mastermix, diluent, negative control, positive control extracted from certified reference materials.

**MODfinder Quantification kits** provide values of GMO contamination in % (w/w) to fulfill labelling requirements.

**Each kit includes:** Oligo Mix for GMO specific target DNA sequence, Oligo Mix for endogenous reference gene, Mastermix, diluent, negative control and set of calibration standards extracted from certified reference materials.

DNA amplifiability control kits	50 Tests
Universal eukaryotic Reference gene	PGE06A-50
Chloroplast Universal Vegetal Reference gene	PGE08A-50
Corn Reference gene (Invertase)	PGE11A-50
Corn Reference gene (ADH)	PGE23A-50
Corn Reference gene (HMG)	PGE24A-50
Flax Reference gene	PGE12A-50
Rice Reference gene	PGE13A-50
Rapeseed Reference gene	PGE19A-50
Soybean Reference gene	PGE09A-50
Potato Reference gene	PGE20A-50
Cotton Reference gene (ACP1)	PGE21A-50
Cotton Reference gene (SAH7 - acc. to IWA32)	PGE21AIWA32-50
Sugarbeet Reference gene	PGE22A-50
Tomato Reference gene	PGE28A-50
Wheat Reference gene	PGE29A-50
Papaya Reference gene	PGE31A-50

Genetic modification markers detection kits	50 Tests
p35S CaMV	PGE01A-50
p35S CaMV quantitative (made to order)	PGE01Q-50
t35S CaMV	PGE03A-50
tNOS	PGE04A-50
tNOS quantitative (made to order)	PGE04Q-50
p34S/pFMV	PGE17A-50
nptII	PGE07A-50
pat	PGE14A-50
pat (acc. to IWA32)	PGE14AIWA32-50
bar	PGE15A-50
epsps (Pan)	PGE16A-50
OTP mEPSPS	PGE30A-50
CTP2-CP4EPSPS	PGE58A-50
cry1Ab/Ac	PGE25A-50
cry1Ab/Ac (acc. to IWA32)	PGE25AIWA32-50
pNOS	PGE27A-50
tE9	PGE37A-50

### Multiplex Genetic Modification markers kits

All the multiplex kits are fulfilling the requirements indicated on JRC Technical Report “Guidance document on multiplex real-time PCR methods”

#### Multiplex Genetic Modification markers detection kits

FASTscreen Duo for feed ingredients testing p35s/tNOS	PGE05A-8ST
FASTscreen Tetra for feed ingredients testing p35s/tNOS & pFMV/pat*	PGE10A-8ST
2-Plex p35S/tNOS	PGE05A-50
2-Plex pFMV/nptII	PGE40A-50
2-Plex pFMV/pat	PGE46A-50
2-Plex t35S/pat+bar	PGE51A-50
2-Plex t35S/pFMV	PGE52A-50
2-Plex epsps/pat	PGE53A-50
2-Plex nptII/bar	PGE54A-50
3-Plex nptII/pat/epsps	PGE32A-50
4-Plex p35S/tNOS/pFMV	PGE26A-50
4-Plex p35S/tNOS/pFMV with internal control	PGE26A-C-50
4-Plex p35S/tNOS/pFMV/bar	PGE34A-50
4-Plex nptII/pat/epsps/pNOS	PGE35A-50
4-Plex epsps/pat/bar/nptII	PGE42A-50
4-Plex p35S/tNOS/pFMV/t35S	PGE47A-50

\*50+50 tests

Botanical impurities detection kits	50 Tests
2-Plex CaMV/FMV virions infection	PGE39A-50
2-Plex Corn/soy	PGE43A-50
2-Plex Rapeseed/Cotton	PGE50A-50
3-Plex Rice/Sugar Beet/Wheat	PGE48A-50
4-Plex Flax/Soy/Rapeseed/Cotton	PGE49A-50
4-Plex Corn/Soy/Rapeseed/Cotton	PGE33A-50

■ FAM

■ HEX

■ TxRed

■ Cy5

Corn	50 Tests
Bt176 detection kit (UID SYN-EV176-9)	PGC01A-50
Bt176 quantification kit (UID SYN-EV176-9)	PGC01Q-50
MON810 detection kit (UID MON-00810-6)	PGC02A-50
MON810 quantification kit (UID MON-00810-6)	PGC02Q-50
T25 detection kit (UID ACS-ZM003-2)	PGC03A-50
T25 quantification kit (UID ACS-ZM003-2)	PGC03Q-50
BT11 detection kit (UID SYN-BT011-1)	PGC04A-50
BT11 quantification kit (UID SYN-BT011-1)	PGC04Q-50
NK603 detection kit (UID MON-00603-6)	PGC05A-50
NK603 quantification kit (UID MON-00603-6)	PGC05Q-50
CBH-351 detection kit (UID ACS-ZM004-3)	PGC06A-50
GA21 detection kit (UID MON-00021-9)	PGC07A-50
GA21 quantification kit (UID MON-00021-9)	PGC07Q-50
DAS1507 detection kit (UID DAS-01507-1)	PGC08A-50
DAS1507 quantification kit (UID DAS-01507-1)	PGC08Q-50
MON863 detection kit (UID MON-00863-5)	PGC09A-50
MON863 quantification kit (UID MON-00863-5)	PGC09Q-50
MIR604 detection kit (UID SYN-IR604-5)	PGC10A-50
MIR604 quantification kit (UID SYN-IR604-5)	PGC10Q-50
DAS59122 detection kit (UID DAS-59122-7)	PGC11A-50
DAS59122 quantification kit (UID DAS-59122-7)	PGC11Q-50
DBT418 detection kit (UID DKB-89614-9)	PGC12A-50
98140 detection kit (UID DP-098140-6)	PGC13A-50
98140 quantification kit (UID DP-098140-6)	PGC13Q-50
MIR162 detection kit (UID SYN-IR162-4)	PGC14A-50
MIR162 quantification kit (UID SYN-IR162-4)	PGC14Q-50
LY038 detection kit (UID REN-00038-3)	PGC16A-50
Event 3272 detection kit (UID SYN-E3272-5)	PGC17A-50
Event 3272 quantification kit (UID SYN-E3272-5)	PGC17Q-50
MON87419 detection kit (UID MON-87419-8) COMING SOON	PGC18A-50
MON87419 quantification kit (UID MON-87419-8) COMING SOON	PGC18Q-50
MON88017 detection kit (UID MON-88017-3)	PGC19A-50
MON88017 quantification kit (UID MON-88017-3)	PGC19Q-50
MON89034 detection kit (UID MON-89034-3)	PGC20A-50
MON89034 quantification kit (UID MON-89034-3)	PGC20Q-50

Corn	50 Tests
DAS40278 detection kit (UID DAS-40278-9)	PGC22A-50
DAS40278 quantification kit (UID DAS-40278-9)	PGC22Q-50
MON87460 detection kit (UID MON-87460-4)	PGC23A-50
MON87460 quantification kit (UID MON-87460-4)	PGC23Q-50
Event 5307 detection kit (UID SYN-05307-1)	PGC24A-50
Event 5307 quantification kit (UID SYN-05307-1)	PGC24Q-50
MON87427 detection kit (UID MON-87427-7)	PGC25A-50
MON87427 quantification kit (UID MON-87427-7)	PGC25Q-50
VCO-01981-5 detection kit (UID VCO-01981-5)	PGC26A-50
VCO-01981-5 quantification kit (UID VCO-01981-5)	PGC26Q-50
MON87411 detection kit (UID MON-87411-9)	PGC27A-50
MON87411 quantification kit (UID MON-87411-9)	PGC27Q-50
4114 detection kit (UID DP-004114-3)	PGC29A-50
4114 quantification kit (UID DP-004114-3)	PGC29Q-50
MZIR098 detection kit (UID SYN-00098-3)	PGC30A-50
MZIR098 quantification kit (UID SYN-00098-3)	PGC30Q-50
MZHGOJG detection kit (UID SYN-000JG-2)	PGC31A-50
MZHGOJG quantification kit (UID SYN-000JG-2)	PGC31Q-50
MON87403 detection kit (UID MON-87403-1)	PGC32A-50
MON87403 quantification kit (UID MON-87403-1)	PGC32Q-50
DP202216 detection kit (UID DP-202216-6)	PGC42A-50
DP202216 quantification kit (UID DP-202216-6)	PGC42Q-50
2-Plex kit for the detection of GM corn <a href="#">DAS40278/LY038</a>	PGC28A-50
2-Plex kit for the detection of GM corn <a href="#">4114/5307</a>	PGC33A-50
2-Plex kit for the detection of GM corn <a href="#">Bt11/DAS1507</a>	PGC34A-50
2-Plex kit for the detection of GM corn <a href="#">GA21/DAS59122</a>	PGC35A-50
2-Plex kit for the detection of GM corn <a href="#">MIR162/MIR604</a>	PGC36A-50
2-Plex kit for the detection of GM corn <a href="#">MON810/MON87403</a>	PGC37A-50
2-Plex kit for the detection of GM corn <a href="#">MON87411/MON87427</a>	PGC38A-50
2-Plex kit for the detection of GM corn <a href="#">MON87460/MON88017</a>	PGC39A-50
2-Plex kit for the detection of GM corn <a href="#">MON89034/NK603</a>	PGC40A-50
2-Plex kit for the detection of GM corn <a href="#">T25/MZHGOJG</a>	PGC41A-50



Soybean	50 Tests
A2704-12 detection kit (UID ACS- GM005-3)	PGS01A-50
A2704-12 quantification kit (UID ACS- GM005-3)	PGS01Q-50
GTS40-3-2 (R.Up Ready) detection kit (UID MON-04032-6)	PGS02A-50
GTS40-3-2 (R.Up Ready) quantification kit (UID MON-04032-6)	PGS02Q-50
A5547-127 detection kit (UID ACS- GM006-4)	PGS03A-50
A5547-127 quantification kit (UID ACS- GM006-4)	PGS03Q-50
MON89788 detection kit (UID MON-89788-1)	PGS04A-50
MON89788 quantification kit (UID MON-89788-1)	PGS04Q-50
DP305423 detection kit (UID DP-305423-1)	PGS05A-50
DP305423 quantification kit (UID DP-305423-1)	PGS05Q-50
DP356043 detection kit (UID DP-356043-5)	PGS06A-50
DP356043 quantification kit (UID DP-356043-5)	PGS06Q-50
MON87701 detection kit (UID MON-87701-2)	PGS07A-50
MON87701 quantification kit (UID MON-87701-2)	PGS07Q-50
CV127 detection kit (UID BPS-CV127-9)	PGS08A-50
CV127 quantification kit (UID BPS-CV127-9)	PGS08Q-50
MON87705 detection kit (UID MON-87705-6)	PGS09A-50
MON87705 quantification kit (UID MON-87705-6)	PGS09Q-50
MON87769 detection kit (UID MON-87769-7)	PGS10A-50
MON87769 quantification kit (UID MON-87769-7)	PGS10Q-50
FG72 detection kit (UID MST-FG072-2)	PGS11A-50
FG72 quantification kit (UID MST-FG072-2)	PGS11Q-50
DAS44406 detection kit (UID DAS-44406-6)	PGS12A-50
DAS44406 quantification kit (UID DAS-44406-6)	PGS12Q-50
DAS68416 detection kit (UID DAS-68416-4)	PGS13A-50
DAS68416 quantification kit (UID DAS-68416-4)	PGS13Q-50
DAS81419 detection kit (UID DAS-81419-2)	PGS14A-50
DAS81419 quantification kit (UID DAS-81419-2)	PGS14Q-50
MON87708 detection kit (UID MON-87708-9)	PGS15A-50
MON87708 quantification kit (UID MON-87708-9)	PGS15Q-50
MON87751 detection kit (UID MON-87751-7)	PGS19A-50

■ FAM

■ HEX

■ TxRed

■ Cy5

Soybean	50 Tests
MON87751 quantification kit (UID MON-87751-7)	PGS19Q-50
SYHT0H2 detection kit (UID SYN-000H2-5)	PGS20A-50
SYHT0H2 quantification kit (UID SYN-000H2-5)	PGS20Q-50
GMB151 quantification kit (UID BCS- GM151-6)	PGS33A-50
GMB151 quantification kit (UID BCS-GM151-6)	PGS33Q-50
2-Plex CV127/DP305423	PGS17A-50
2-Plex SYHT0H2/GMB151	PGS22A-50
2-Plex MON87754/MON87751	PGS23A-50
2-Plex A2704-12/A5547-127	PGS24A-50
2-Plex CV127/MON87769	PGS25A-50
2-Plex DAS68416/DAS44406	PGS26A-50
2-Plex DP305423/DP356043	PGS27A-50
2-Plex GTS 40-3-2/FG72	PGS28A-50
2-Plex MON87705/MON89788	PGS29A-50
2-Plex MON87708/MON87701	PGS30A-50
3-Plex A2704/A5547/DP356043	PGS18A-50
3-Plex CV127+MON87701/DP305423+DP356043/MON87708+MON87769	PGS21A-50
3-Plex CV127/DP305423/MON87701	PGS16A-50
4-Plex CV127/DP305423/MON87751/MON87708	PGS31A-50
4-Plex MON87701/DP356043/MON87754/MON87769	PGS32A-50
4-Plex CV127/DP305423/MON87708/MON87769	PGS34A-50

Cotton	50 Tests
MON531 detection kit (UID MON-00531-6)	PGT01A-50
MON531 quantification kit (UID MON-00531-6)	PGT01Q-50
MON1445 detection kit (UID MON-01445-2)	PGT02A-50
MON1445 quantification kit (UID MON-01445-2)	PGT02Q-50
281-24-236 detection kit (UID DAS-24236-5)	PGT03A-50
281-24-236 quantification kit (UID DAS-24236-5)	PGT03Q-50
3006-210-23 detection kit (UID DAS-21023-5)	PGT04A-50
3006-210-23 quantification kit (UID DAS-21023-5)	PGT04Q-50
LL25 detection kit (UID ACS-GH001-3)	PGT05A-50
LL25 quantification kit (UID ACS-GH001-3)	PGT05Q-50
MON15985 detection kit (UID MON-15985-7)	PGT06A-50
MON15985 quantification kit (UID MON-15985-7)	PGT06Q-50
GHB614 detection kit (UID BCS-GH002-5)	PGT07A-50
GHB614 quantification kit (UID BCS-GH002-5)	PGT07Q-50
MON88913 detection kit (UID MON-88913-8)	PGT08A-50
MON88913 quantification kit (UID MON-88913-8)	PGT08Q-50
GHB119 detection kit (UID BCS-GH005-8)	PGT09A-50
GHB119 quantification kit (UID BCS-GH005-8)	PGT09Q-50
T304-40 detection kit (UID BCS-GH004-7)	PGT10A-50
T304-40 quantification kit (UID BCS-GH004-7)	PGT10Q-50
COT-102 detection kit (UID SYN-IR102-7)	PGT11A-50
COT-102 quantification kit (UID SYN-IR102-7)	PGT11Q-50
MON88701 detection kit (UID MON-88701-3)	PGT12A-50
MON88701 quantification kit (UID MON-88701-3)	PGT12Q-50
DAS81910 detection kit (UID DAS-81910-7)	PGT13A-50
DAS81910 quantification kit (UID DAS-81910-7)	PGT13Q-50
GHB811 detection kit (UID BCS-GH811-4)	PGT14A-50
GHB811 quantification kit (UID BCS-GH811-4)	PGT14Q-50

■ FAM

■ HEX

■ TxRed

■ Cy5

Canola	50 Tests
MS8 detection kit (UID ACS-BN005-8)	PGZ01A-50
MS8 quantification kit (UID ACS-BN005-8)	PGZ01Q-50
RF3 detection kit (UID ACS-BN003-6)	PGZ02A-50
RF3 quantification kit (UID ACS-BN003-6)	PGZ02Q-50
RT73 detection kit (UID MON-00073-7)	PGZ03A-50
RT73 quantification kit (UID MON-00073-7)	PGZ03Q-50
T45 detection kit (UID ACS-BN008-2)	PGZ04A-50
T45 quantification kit (UID ACS-BN008-2)	PGZ04Q-50
TOPAS 19 2 detection kit (UID ACS-BN007-1)	PGZ05A-50
TOPAS 19 2 quantification kit (UID ACS-BN007-1)	PGZ05Q-50
RF1 detection kit (UID ACS-BN001-4)	PGZ06A-50
RF1 quantification kit (UID ACS-BN001-4)	PGZ06Q-50
RF2 detection kit (UID ACS-BN002-5)	PGZ07A-50
RF2 quantification kit (UID ACS-BN002-5)	PGZ07Q-50
OXY-235 detection kit (UID ACS-BN011-5)	PGZ08A-50
MS1 detection kit (UID ACS-BN004-7)	PGZ09A-50
MS1 quantification kit (UID ACS-BN004-7)	PGZ09Q-50
DP073496 detection kit (UID DP-073496-4)	PGZ10A-50
DP073496 quantification kit (UID DP-073496-4)	PGZ10Q-50
MON88302 detection kit (UID MON-88302-9)	PGZ11A-50
MON88302 quantification kit (UID MON-88302-9)	PGZ11Q-50
MS11 detection kit (UID ACS-BN012-7)	PGZ12A-50
MS11 quantification kit (UID ACS-BN012-7)	PGZ12Q-50

# MODIfinder GMO Kits

<b>Sugar beet</b>	<b>50 Tests</b>
RURH7-1 detection kit (UID KM-000H71-4)	PGB01A-50
RURH7-1 quantification kit (UID KM-000H71-4)	PGB01Q-50
<b>Flax</b>	<b>50 Tests</b>
FP967 detection kit (UID CDC-FL001-2)	PGF01A-50
<b>Potato</b>	<b>50 Tests</b>
EH92-527 detection kit (UID BPS-25271-9)	PGP01A-50
EH92-527 quantification kit (UID BPS-25271-9)	PGP01Q-50
<b>Rice</b>	<b>50 Tests</b>
PCR GM LL601 detection kit (UID BCS-OS003-7)	PGR01A-50
LL62 detection kit (UID ACS-OS002-5)	PGR02A-50
LL62 quantification kit (UID ACS-OS002-5)	PGR02Q-50
PCR GM BT63 detection kit (UID HZU-HH001-9)	PGR03A-50
<b>Papaya</b>	<b>50 Tests</b>
Huanhong N1 detection kit (UID Not Available)	PGY01A-50
55-1 detection kit (UID CUH-CP551-8)	PGY02A-50

## MODIfinder AquAdvantage Salmon

Salmon is the first genetically modified animal to be approved for human consumption although only in a few countries.

The MODIfinder AquAdvantage Salmon Assay detects the genetic modification on the growth hormone-regulating gene of this genetically modified salmon.

<b>Salmon</b>	<b>50 Tests</b>
AquAdvantage detection kit	PGX01A-50

■ FAM
 ■ HEX
 ■ TxRed
 ■ Cy5

### MODfinder SemiQ Controls

MODfinder SemiQ Controls are pure DNA extracts from traceable reference materials at a defined concentration. When used as cut-off positive controls in GM detection experiments, performed on matrices derived from single ingredients (e.g. soy grains, lecithin, corn, corn starch...), if unknown samples are normalized at the same DNA concentration, they allow for a convenient estimation of contamination levels without the need of more expensive classical quantification experiments. Inquire for customized concentrations and contaminations level

120 µl 10 ng/µl GM 1% (w/w)

Quantified Reference DNA	Codes
Sugar Beet non-GM	PGE22R-BLK10PPM
GM Sugar beet RURH7-1 (UID KM-000H71-4)	PGB01R
Corn non-GM	PGE24R-BLK10PPM
GM Corn Bt176 (UID SYN-EV176-9)	PGC01R
GM Corn MON810 (UID MON-00810-6)	PGC02R
GM Corn T25 (UID ACS-ZM003-2)	PGC03R
GM Corn BT11 (UID SYN-BT011-1)	PGC04R
GM Corn NK603 (UID MON-00603-6)	PGC05R
GM Corn GA21 (UID MON-00021-9)	PGC07R
GM Corn DAS1507 (UID DAS-01507-1)	PGC08R
GM Corn MON863 (UID MON-00863-5)	PGC09R
GM Corn MIR604 (UID SYN-IR604-5)	PGC10R
GM Corn DAS59122 (UID DAS-59122-7)	PGC11R
GM Corn 98140 (UID DP-098140-6)	PGC13R
GM Corn MIR162 (UID SYN-IR162-4)	PGC14R
GM Corn Event 3272 (UID SYN-E3272-5)	PGC17R
GM Corn MON87419 (UID MON-87419-8) COMING SOON	PGC18R
GM Corn MON88017 (UID MON-88017-3)	PGC19R
GM Corn MON89034 (UID MON-89034-3)	PGC20R
GM Corn DAS40278 (UID DAS-40278-9)	PGC22R
GM Corn MON87460 (UID MON-87460-4)	PGC23R
GM Corn Event 5307 (UID SYN-05307-1)	PGC24R
GM Corn MON87427 (UID MON-87427-7)	PGC25R
GM Corn VCO-01981-5 (UID VCO-01981-5)	PGC26R
GM Corn MON87411 (UID MON-87411-9)	PGC27R
GM Corn 4114 (UID DP-004114-3)	PGC29R
GM Corn MZIR098 (UID SYN-00098-3)	PGC30R
GM Corn MZHGOJG (UID SYN-000JG-2)	PGC31R
GM Corn MON87403 (UID MON-87403-1)	PGC32R

120 µl 10 ng/µl GM 1% (w/w)

Quantified Reference DNA	Codes
Potato non-GM	PGE20R-BLK10PPM
GM Potato EH92-527 (UID BPS-25271-9)	PGP01R
GM Potato AM04-1020 (UID BPS-A1020-5)	PGP02R
GM Potato AV43-6-G7 (UID AVE-436G7-1)	PGP03R
Rice non-GM	PGE13R-BLK10PPM
GM Rice LL62 (UID ACS-OS002-5)	PGR02R
Soy non-GM	PGE09R-BLK10PPM
GM Soybean A2704-12 (UID ACS-GM005-3)	PGS01R
GM Soybean GTS 40-3-2 (RoundUp Ready) (UID MON-04032-6)	PGS02R
GM Soybean A5547-127 (UID ACS-GM006-4)	PGS03R
GM Soybean MON89788 (UID MON-89788-1)	PGS04R
GM Soybean DP305423 (UID DP-305423-1)	PGS05R
GM Soybean DP356043 (UID DP-356043-5)	PGS06R
GM Soybean MON87701 (UID MON-87701-2)	PGS07R
GM Soybean CV127 (UID BPS-CV127-9)	PGS08R
GM Soybean MON87705 (UID MON-87705-6)	PGS09R
GM Soybean MON87769 (UID MON-87769-7)	PGS10R
GM Soybean FG72 (UID MST-FG072-2)	PGS11R
GM Soybean DAS44406 (UID DAS-44406-6)	PGS12R
GM Soybean DAS68416 (UID DAS-68416-4)	PGS13R
GM Soybean DAS81419 (UID DAS-81419-2)	PGS14R
GM Soybean MON87708 (UID MON-87708-9)	PGS15R
GM Soybean MON87751 (UID MON-87751-7)	PGS19R
GM Soybean SYHT0H2 (UID SYN-000H2-5)	PGS20R
GM Soybean GMB151 (UID BCS-GM151-6)	PGS33R
Cotton non-GM	PGE21R-BLK10PPM
GM Cotton MON531 (UID MON-00531-6)	PGT01R
GM Cotton MON1445 (UID MON-01445-2)	PGT02R
GM Cotton 281-24-236 (UID DAS-24236-5)	PGT03R
GM Cotton 3006-210-23 (UID DAS-21023-5)	PGT04R
GM Cotton LL25 (UID ACS-GH001-3)	PGT05R

120 µl 10 ng/µl GM 1% (w/w)

Quantified Reference DNA	Codes
GM Cotton MON15985 (UID MON-15985-7)	PGT06R
GM Cotton GHB614 (UID BCS-GH002-5)	PGT07R
GM Cotton MON88913 (UID MON-88913-8)	PGT08R
GM Cotton GHB119 (UID BCS-GH005-8)	PGT09R
GM Cotton T304-40 (UID BCS-GH004-7)	PGT10R
GM Cotton COT-102 (UID SYN-IR102-7)	PGT11R
GM Cotton MON88701 (UID MON-88701-3)	PGT12R
GM Cotton DAS81910 (UID DAS-81910-7)	PGT13R
GM Cotton GHB811 (UID BCS-GH811-4)	PGT14R
Rapeseed (Canola) non-GM	PGE19R-BLK10PPM
GM Canola MS8 (UID ACS-BN005-8)	PGZ01R
GM Canola RF3 (UID ACS-BN003-6)	PGZ02R
GM Canola RT73 (UID MON-00073-7)	PGZ03R
GM Canola T45 (UID ACS-BN008-2)	PGZ04R
GM Canola TOPAS 19 2 (UID ACS-BN007-1)	PGZ05R
GM Canola RF1 (UID ACS-BN001-4)	PGZ06R
GM Canola RF2 (UID ACS-BN002-5)	PGZ07R
GM Canola OXY-235 (UID ACS-BN011-5) ddPCR	PGZ08R
GM Canola MS1 (UID ACS-BN004-7)	PGZ09R
GM Canola DP073496 (UID DP-073496-4)	PGZ10R
GM Canola MON88302 (UID MON-88302-9)	PGZ11R
GM Canola MS11 (UID ACS-BN012-7)	PGZ12R



# SPECIALfinder

## Food Allergens Detection Kits

### SPECIALfinder MC kits

SPECIALfinder MC is the portfolio of Real-Time PCR kits developed at Generon targeting multicopy sequences in allergens genomes. This maximizes the sensitivity of allergens detection in environmental swabs and in various complex food/feed matrices after an appropriate DNA extraction.

**Each kit includes:** target specific reagents (primers and probes), Mastermix, diluent, negative control and positive control.

Food allergen Real-Time PCR detection kit	50 Tests
MC Soy/IAC	PAV01M-50
MC Peanut/IAC	PAV02M-50
MC Hazelnut/IAC	PAV03M-50
MC Pecan Nut/IAC	PAV05M-50
MC Walnut/IAC	PAV06M-50
MC Pistachio/IAC	PAV07M-50
MC Cashew/IAC	PAV08M-50
MC Almond/IAC	PAV09M-50
MC Sesame/IAC	PAV13M-50
MC Mustard/IAC	PAV14M-50
MC Celery/IAC	PAV15M-50
MC Brazil nut/IAC	PAV16M-50
MC Lupin/IAC	PAV18M-50
MC Macadamia Nut/IAC	PAV21M-50
MC Mollusks/IAC	PAV22M-50
MC Pine Nut/IAC	PAV23M-50
MC Tree Nuts and Peanut MultiSCREEN/IAC	PAV26M-50

**MIX 1:** Hazelnut, Cashew, Pistachio, Macadamia nut, Peanut/IAC

**MIX 2:** Almond, Brasil nut, Pecan nut, Walnut/IAC

■ FAM

■ HEX

■ TxRed

■ Cy5

## SPECIALfinder Food Allergens Detection Kits

SPECIALfinder kits are developed and validated according to UNI-EN 15634-1:2009 guidelines to detect the target allergen DNA with high specificity and sensitivity. Absence of cross-reactivity was tested versus many food ingredients to avoid false positives. All the tests are made using state-of-art molecular biology grade reagents. Generon offers all the necessary pre- and post-sales support for the implementation of the methods on customers' matrices.

Food allergen Real-Time PCR detection kit	50 Tests
Rye/IAC	PAV10A-50
Oats/IAC	PAV11A-50
Gluten/IAC	PAV17A-50
Crustaceans/IAC	PAV19A-50
Fish/IAC	PAV20A-50
Buckwheat/IAC	PAV24A-50
Barley/IAC	PAV25A-50

### DigIT

Primers and probe (FAM labelled) set, detecting single copy sequences according to DIN CEN/TS 15634 design. Sets can be paired to diverse mixes and reagents for either qPCR or dPCR detection.

DigIT	0.04 micromoles
Celery (acc. to DIN CEN TS 15634-2)	DAV15K-CEN
Hazelnut (acc. to DIN CEN TS 15634-3)	DAV03K-CEN
Peanut (acc. to DIN CEN TS 15634-4)	DAV02K-CEN
Soy (acc. to DIN CEN TS 15634-5)	DAV01K-CEN
Mustard (acc. to DIN CEN TS 15634-5)	DAV14K-CEN
Pistachio Nut	DAV07K
Cashew	DAV08K
Sesame	DAV13K

# SPECIALfinder

## Food Allergens Detection Kits

### DigiCount

DNA extracted from the edible part of allergens and quantified in genomic units using dPCR tests targeting genes present in single copy in allergens' genome. Each vial contains 120 µl of DNA at a concentration > 1000 copies/µL.

DigiCount dPCR quantified standard DNA for food allergens PCR detection	120 µl
Soy	PAV01R
Peanut	PAV02R
Hazelnut	PAV03R
Pistachio	PAV07R
Cashew	PAV08R
Sesame	PAV13R
Mustard	PAV14R
Celery	PAV15R

# SPECIALfinder

## Food Allergens Detection Kits

### ReMaGI

Reference materials produced, according to ISO 17034:2017, dispersing a defined weight of allergenic substances in various matrices

ReMaGI - Allergen reference material	Code	Format
Beta-Lactoglobulin in corn	RMBLG_C	1 Set (3 Vials)
Casein in corn	RMCAS_C	1 Set (3 Vials)
Celery in corn	RMCEL_C	1 Set (3 Vials)
Egg in corn	RMEGG_C	1 Set (3 Vials)
Gluten in corn	RMGLU_C	1 Set (3 Vials)
Heat-treated Gluten in corn	RMGLUHT_C	1 Set (3 Vials)
Lupine in corn	RMLUP_C	1 Set (3 Vials)
Mustard in corn	RMMST_C	1 Set (3 Vials)
Mustard in wheat	RMMST_W	1 Set (3 Vials)
Sesame in corn	RMSME_C	1 Set (3 Vials)
Soy in rice	RMSOY_R	1 Set (3 Vials)

### Available soon

Peanut in corn	RMPNT_C	1 Set (3 Vials)
Hazelnut in corn	RMHZL_C	1 Set (3 Vials)
Pistachio in corn	RMPST_C	1 Set (3 Vials)
Almond in corn	RMALM_C	1 Set (3 Vials)
Walnut in corn	RMWLN_C	1 Set (3 Vials)
Brazilian nut in corn	RMBZL_C	1 Set (3 Vials)
Pecan nut in corn	RMPCN_C	1 Set (3 Vials)
Macadamia nut in corn	RMMCD_C	1 Set (3 Vials)
Pine nut in corn	RMPNE_C	1 Set (3 Vials)
Cashew in corn	RMCHW_C	1 Set (3 Vials)
Fish in corn	RMFSH_C	1 Set (3 Vials)
Mollusk in corn	RMMSK_C	1 Set (3 Vials)
Crustacean in corn	RMCRS_C	1 Set (3 Vials)

# SPECIALfinder

## Food Allergens Detection Kits

### SpyX

Allergens' freeze dried powder dispersed in 5 grams of corn flour to be processed as unknown samples or dispersed in a different matrix to validate analytical processes. Each set is composed by: Tube 1 - flour containing 1000 ppm of allergen powder; tube 2 - blank flour.

### ALLtraces

Allergens' freeze dried powder dispersed in 1 gram of corn flour to be processed as unknown samples or dispersed in a different matrix to validate analytical processes. Each set is composed by: Tube 1 - flour containing 5000 ppm of allergen powder; tube 2 - blank flour.

**Both the products can be customized using blank matrices provided by our clients.**

Allergens	SpyX	ALLtraces
Corn blank	PAV00X	ATR00S
Soy in corn	PAV01X	Inquire
Peanut in corn	PAV02X	Inquire
Hazelnut in corn	PAV03X	Inquire
Wheat in corn	PAV04X	ATR01S
Pecan Nut in corn	PAV05X	Inquire
Walnut in corn	PAV06X	ATR22S
Pistachio in corn	PAV07X	ATR18S
Cashew in corn	PAV08X	ATR07S
Almond in corn	PAV09X	ATR02S
Rye in corn	PAV10X	Inquire
Oats in corn	PAV11X	Inquire
Barley in corn	PAV12X	Inquire
Sesame in corn	PAV13X	ATR19S
Mustard in corn	PAV14X	ATR14S
Celery in corn	PAV15X	Inquire
Brazil Nut in corn	PAV16X	ATR13S
Lupin in corn	PAV18X	ATR25S
Crustaceans in corn	PAV19X	ATR05S
Fish in corn	PAV20X	ATR09S
Macadamia in corn	PAV21X	ATR11S
Mollusks in corn	PAV22X	ATR03S
Pine Nuts in corn	PAV23X	ATR17S
Buckwheat in corn	PAV24X	Inquire
Casein in corn	Inquire	ATR04S
Egg in corn	Inquire	ATR06S
Coconut in corn	Inquire	ATR08S

## SPECIALfinder

### Food Allergens Detection Kits

SpyX matrix reference material for food allergens	SpyX	ALLtraces
Hazelnut in wheat dispersive matrix	Inquire	ATR10W
Total Milk in corn dispersive matrix	Inquire	ATR12S
Peanut in wheat dispersive matrix	Inquire	ATR15W
Pecan nut in wheat dispersive matrix	Inquire	ATR16W
Soy in wheat dispersive matrix	Inquire	ATR20W
Beta-Lactoglobulin in corn dispersive matrix	Inquire	ATR23S

Gluten Extraction	Code	1 Unit
Buffer for R5 ELISA kits according to CODEX Alimentarius	MCE024	1000 ml
	MCE024-1	250 ml

# VERYfinder

## Ingredient Authenticity Kits

VERYfinder is the product line developed by Generon with premium quality molecular biology reagents to provide the customer a turn-key solution for the detection and semi-quantification of a wide selection of animal and plant nucleic acids.

**Each kit includes:** target specific reagents (primers and probes), Mastermix, diluent, negative control, 2 vials of positive control (120 µl Target DNA at a concentration 8 ng/µl) extracted from raw material and heat treated material respectively. Heat treatment performed in autoclave at 121°C for 20'.

Animal duplex kits	50 Tests
PORK traces semi-quantification/IAC	PMA01S-50
BOVINE traces semi-quantification/IAC	PMA02S-50
TURKEY traces semi-quantification/IAC	PMA03S-50
POULTRY traces semi-quantification/IAC	PMA04S-50
SHEEP traces semi-quantification/IAC	PMA05S-50
GOAT traces semi-quantification/IAC	PMA06S-50
BUFFALO traces semi-quantification/IAC	PMA07S-50
EQUINE traces semi-quantification/IAC	PMA08S-50
RABBIT traces semi-quantification/IAC	PMA12S-50
DUCK traces semi-quantification/IAC	PMA13S-50
GOOSE traces semi-quantification/IAC	PMA14S-50
CAT traces semi-quantification/IAC	PMA96S-50
DOG traces semi-quantification/IAC	PMA97S-50
MEAT traces semi-quantification/IAC	PMA99A-50
VEGETARIAN traces semi-quantification/IAC	PMA99S-50

■ FAM

■ HEX

■ TxRed

■ Cy5

Animal single-plex kits fully compliant to ISO 20224	50 Tests
PORK traces detection (acc. to ISO-20224-3)	PMA01ISO-50
BOVINE traces detection (acc. to ISO-20224-1)	PMA02ISO-50
TURKEY traces detection (acc. to ISO-20224-8)	PMA03ISO-50
POULTRY traces detection (acc. to ISO-20224-4)	PMA04ISO-50
OVINE traces detection (acc. to ISO-20224-2)	PMA05ISO-50
GOAT traces detection (acc. to ISO-20224-5)	PMA06ISO-50
EQUINE traces detection (acc. to ISO-20224-6)	PMA08ISO-50
DONKEY traces detection (acc. to ISO-20224-7)	PMA11ISO-50
GOOSE traces detection (acc. to ISO-20224-9)	PMA14ISO-50
Amplifiability control (acc. to ISO-20224)	PMA99ISO-50

**Animal multiplex kits based on ISO 20224**

Halal 4-Plex swine/horse/donkey traces detection COMING SOON	PMA52ISO-50
Ruminants 4-Plex ricerca bovine/goat/sheep traces detection COMING SOON	PMA53ISO-50
Avian 4-Plex ricerca swine/horse/donkey traces detection COMING SOON	PMA54ISO-50

**DigiT meat**

Primers and probe (FAM labelled) sets, detecting single copy sequences according to ISO 20224. Sets can be paired to diverse mixes and reagents for either qPCR or dPCR detection.

DigiT	0.04 micromoles
Swine Assay (acc. to ISO TS 20224-3)	DMA01K
Bovine Assay (acc. to ISO TS 20224-1)	DMA02K
Turkey Assay (acc. to ISO TS 20224-8)	DMA03K
Poultry Assay (acc. to ISO TS 20224-4)	DMA04K
Ovine Assay (acc. to ISO TS 20224-2)	DMA05K
Goat Assay (acc. to ISO TS 20224-5)	DMA06K
Equine Assay (acc. to ISO TS 20224-6)	DMA08K
Donkey Assay (acc. to ISO TS 20224-7)	DMA11K
Goose Assay (acc. to ISO TS 20224-9)	DMA14K

Milk authenticity tests	50 Tests
COW milk in BUFFALO/IAC	PMA31S-50
COW in BUFFALO InDaMilk110/IAC	PMA33S-50
COW BETA CASEIN InDaMilk110 A1 A2/IAC	PMA34S-50



# VERYfinder

## Ingredient Authenticity Kits

Fish authenticity tests		50 Tests
Authenticity testing: Atlantic Cod		PFA01A-50
Grains authenticity tests	Code	Format
SOFT WHEAT traces quantification	PSV02Q	100 Tests
SOFT/DURUM WHEAT contamination SemiQ Assay	PSV02S-50	50 Tests

### VERYfinder Pure DNA Extract

Animal DNA	1200 ng in 150 µl Vial
PORK	PMA01R
	PMA01R_HT
BOVINE	PMA02R
	PMA02R_HT
TURKEY	PMA03R
	PMA03R_HT
CHICKEN	PMA04R
	PMA04R_HT
SHEEP	PMA05R
	PMA05R_HT
GOAT	PMA06R
	PMA06R_HT
BUFFALO	PMA07R
	PMA07R_HT
HORSE	PMA08R
	PMA08R_HT
DONKEY	PMA11R
	PMA11R_HT
RABBIT	PMA12R
	PMA12R_HT
DUCK	PMA13R
	PMA13R_HT
GOOSE	PMA14R
	PMA14R_HT
WILD BOAR	PMA15R
	PMA15R_HT
CAT	PMA96R
	PMA96R_HT
DOG	PMA97R
	PMA97R_HT

R= RAW MEAT

HT=HEAT TREAT MEAT (meat treated in autoclave 20' @ 121 °C previous to DNA extraction).

High Concentration Pure DNA Extracts from raw meat	[50-100 ng/ul] 150 µl Vial
Swine	PMA01R_HC
Bovine	PMA02R_HC
Turkey	PMA03R_HC
Chicken	PMA04R_HC
Sheep	PMA05R_HC
Goat	PMA06R_HC
Buffalo	PMA07R_HC
Donkey	PMA11R_HC
Rabbit	PMA12R_HC
Duck	PMA13R_HC
Goose	PMA14R_HC

**DigiCount meat**

DNA extracted and purified from the edible part of allergens and quantified in genomic units using dPCR using assays targeting genes present in single copy in animals’ genomes. Each vial contains 120 µl of DNA at a concentration > 1000 copies / µL

DigiCount dPCR quantified standard DNA from raw meat	120 µl Vial
Swine PCR detection	PMA01D
Bovine PCR detection	PMA02D
Turkey PCR detection	PMA03D
Poultry PCR detection	PMA04D
Ovine PCR detection	PMA05D
Goat PCR detection	PMA06D
Equine PCR detection	PMA08D
Donkey PCR detection	PMA11D
Goose PCR detection	PMA14D

# VERYfinder

## Ingredient Authenticity Kits

### VERYfinder Quantiscale

These calibrators sets allow for the quantification of the % content in the relevant meat DNA with PCR technology. The DNA content is titrated via fluorimetric testing; hence, this set can be used with any PCR kit for meat detection. Each set includes 4 vials containing 120 QI of the relevant meat DNA dispersed at scalar percentages (from 100% down to 0.1%) in a diverse meat DNA background at a total concentration of 8 ng/ ul . The DNA is extracted from raw meats, but when ordering PMAxxW\_HT the DNA is extracted from meats heat treated in autoclave at 121 C for 20' to simulate the DNA fragmentation occurring during meats processing.

Quantiscale - DNA calibrants	1 Set
PORK	PMA01W PMA01W_HT
BOVINE	PMA02W PMA02W_HT
TURKEY	PMA03W PMA03W_HT
POULTRY	PMA04W PMA04W_HT
SHEEP	PMA05W PMA05W_HT
GOAT	PMA06W PMA06W_HT
BUFFALO	PMA07W PMA07W_HT
EQUINE	PMA08W PMA08W_HT
RABBIT	PMA12W PMA12W_HT
DUCK	PMA13W PMA13W_HT
GOOSE	PMA14W PMA14W_HT
MEAT FRACTION	PMA99W PMA99W_HT

# VERYfinder

## Ingredient Authenticity Kits

### VERYfinder Quanticust

Each box includes 1 set of customized DNA:

- Or 4 vials containing 120 µl of standard target DNA dispersed at various customizable concentration (e.g. 100%; 50%; 25%; 2,5%;) in a background DNA extracted from on-demand matrices (e.g. swine/bovine DNA) at a total concentration of 8 ng/µl.
- Or 1 vials containing 300 µl of standard target DNA dispersed at customizable concentration (e.g. 1% equine in 99% bovine) at a total concentration of 8 ng/µl.

DNA can be extracted from raw material or heat treated material respectively (Heat treatment performed in autoclave at 121°C for 20') upon customer request.

QuantiCust Reference Materials DNA Extract	1 Vial
PORK	PMA01X
BOVINE	PMA02X
TURKEY	PMA03X
POULTRY	PMA04X
SHEEP	PMA05X
GOAT	PMA06X
BUFFALO	PMA07X
EQUINE	PMA08X
RABBIT	PMA12X
DUCK	PMA13X
GOOSE	PMA14X

### VETfinder

Reference material working as process control in experiments for the detection of animal DNA or animal proteins. The production follows the indications of ISO 17034 and uses heat-treated (autoclaved) meat (subsequently dehydrated and pulverized) to create a spiked dispersion of contaminating meat at a defined w/w percentage. The homogeneity of the dispersion is guaranteed in a minimum sample of 200 mg.

The product has the necessary specification to act as a process control in the execution of the official EURL-AP method for the detection of animal meal in feed.

VETfinder heat treated meat powder reference material	5 grams
0.1% chicken and 0.1% bovine in 99,8% pork	PMA94F
0.1% chicken in 99,9% pork	PMA95F
0.1% bovine in 99,9% pork	PMA97F
0.1% pork in 99,9% chicken	PMA98F

# WHA Tfinder

## Virus Detection Kits

Hepatitis A virus (HAV) and Norovirus (NoV) are important agents of food-borne human viral illness. HAV and NoV detection and quantification is difficult as they are non-culturable; PCR has enabled confirmation and quantification of HAV and NoV.

Generon offers turn-key solution to test the presence of these pathogens according to ISO/CEN indications. The portfolio includes all the reagents to execute the ISO protocol from start to finish.

**Each kit includes:** target specific reagents (primers and probes), Mastermix, negative control and positive control.

### Fully compliant to ISO-15216

Product List	50 Tests
HAV ID - Kit RTqPCR Hepatitis A	PVW08A-50
Norovirus I ID - Kit RTqPCR	PVW09A-50
Norovirus II ID - Kit RTqPCR	PVW10A-50
Recovery control kit	PVW05A-50

### Based on ISO-15216

Product List	50 Tests
2-Plex kit RTqPCR [Hepatitis A + Norovirus I + Norovirus II]/[IC]	PVW02A-50
3-Plex kit RTqPCR [Hepatitis A]/[Norovirus I + Norovirus II]/[IC]	PVW03A-50
4-Plex kit RTqPCR [Hepatitis A]/[Norovirus I]/[Norovirus II]/[IC]	PVW04A-50
2-Plex HAV ID - Kit RTqPCR Hepatitis A/IAC	PVW18A-50
2-Plex Norovirus I ID - Kit RTqPCR/IAC	PVW19A-50
2-Plex Norovirus II ID - Kit RTqPCR/IAC	PVW20A-50
3-Plex kit RTqPCR [Norovirus I]/[Norovirus II]/[IC]	PVW07A-50

■ FAM

■ HEX

■ TxRed

■ Cy5

# WHATfinder

## Virus Detection Kits

### DigiCount

Each vial contains 120 µl of a plasmid inserted with the specific sequence of the amplified target as indicated in ISO 15216. The amplification of a dilution range from this quantification standard generates a standard curve, thus allowing the quantification of a determined target in contaminated samples. The quantification standard is not a reference material.

Product List	120 µl Vial
HAV - ISO15216 compliant RTqPCR Standard	PMA08R
Norovirus I - ISO15216 compliant RTqPCR Standard	PVW09R
Norovirus II - ISO15216 compliant RTqPCR Standard	PVW10R

# ONE-HEALTH

## Diagnosics

Reference Method for the detection of processed animal proteins (PAP) in feed According to Regulation (EU) 2022/893 relies on the combination of light microscopy and Real-Time PCR; Generon can provide the complete range of products in compliance to the Standard Operating Protocols (SOPs) edited by the EURL-AP for technical implementation.

Product List	Code	Format
Real-Time PCR kit for the detection of ruminants DNA in feed (acc. to EURL-AP method)	PMA95V	200 tests
Real-Time PCR kit for the detection of porcine DNA in feed (acc. to EURL-AP method)	PMA97V	200 tests
Real-Time PCR kit for the detection of poultry DNA in feed (acc. to EURL-AP method)	PMA98V	200 tests
ERM Ruminant pDNA Calibrant for PAP detection*	ERM-AD482	Set (3 vials)
ERM Porcine pDNA Calibrant for PAP detection*	ERM-AD483	Set (3 vials)
ERM Poultry pDNA Calibrant for PAP detection*	ERM-AD484K	Set (3 vials)
Promega MagneSphere Stand for 1.5 ml tubes	EXD910	2 positions
Promega MagneSphere Stand for 1.5 ml tubes	EXD911	12 positions
Promega Wizard DNA Purification kit for the detection of PAP in feed*	EXD912	200 prep
Promega Wizard Magnetic DNA Purification kit	EXD913	400 prep

\* according to EURL-AP method

Product List	Code	Format
Real-Time PCR kit for the detection of nCoV-19 in environmental swabs and veterinary samples	PMB00C_M2	50 reactions
Intype IC-RNA Extraction Control Material	IL_IC289970	1ml
Intype IC-RNA Extraction Control Material	IL_IC289980	1ml
Real-Time PCR kit for the detection of Intype IC-RNA as extraction control	PMB12A-50	50 tests
Real-Time PCR kit for the detection of Intype IC-DNA as extraction control	PMB21A-50	50 tests
Real-Time PCR kit for validation of environmental viral detection experiments (MS2 Phage)	PMB27P	50 tests
Virus sampling kit with synthetic swab and tube containing 3 mL inactivating transport medium	ACC1919	50 units

**DISCOVER  
GENERON COMPLETE  
PORTFOLIO**

**INGREDIENT AUTHENTICITY**

**CHEMICAL RESIDUES**

**GMO**

**MICROBIOLOGY**

**MYCOTOXINS**

**ALLERGENS**

**ANTIBIOTICS**

**ONE HEALTH**

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