



# Catalogue2019

PCR Real-Time kits



## Values to rely on

**GENERON** assays feed your safety and quality assurance through our best direct technical support



### Expertise

#### Food safety specialists

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**At Generon, we bring our market expertise and product innovation directly to your business**

We founded GENERON biotechnology laboratories in Modena, in the heart of Italian food Valley. As food safety specialists we create sharp, cost effective test kits to provide you with accurate and ready-to-use solutions



### By your side

#### Support and partnership

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**At Generon, we are driven by our customers**

Food market players are increasingly aware and must tackle changing high standards. Choosing GENERON as a partner gives you access to the best analytical tools portfolio that we have customized and evaluated for you to be best-in range exceeding your expectations



### Action team

#### Streight in connection

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**At Generon, we are continously investing in our international professional team**

Behind each GENERON assay there is a team of molecular and micro-biologists, chemists, food technologists, customer service and sales specialists all connected and committed to earn your trust and boost your quality control diagnostics through profitable partnership



### Time for value

#### Immediate solutions

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**At Generon, we ensure your value by providing timely support and science on-demand**

Through constant research, we select and rigorously evaluate all the new solutions that science and technology advancements offer to guarantee you designed-in quality and high-speed tests to perfectly match the requirements of your industry business process



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# ION Extraction Kits

Nucleic acids based analysis methods and their standardization are the core of Generon R&D and sales activities as we aim to be the most reliable partner in this field for food and beverage industry.

ION is the portfolio of DNA extraction products developed by Generon to exploit at best Real-Time PCR and Droplet Digital PCR, three kits with different profiles to offer the customer the most convenient solution to fit the technical demands.

- **ION Liquid FORCE:** the rapid solution specifically developed for crude and fast extraction of bacteria DNA after media broth enrichment.
- **ION Spin DNA Prep One-for-All:** CTAB based kit for the extraction of DNA from small samples containing PCR inhibiting compounds.
- **ION Force DNA extractor FAST:** CTAB based kit for the extraction of DNA from large samples when representativeness is of paramount importance.

Ion Force DNA Extractor FAST is used at the Italian National Reference Lab for GMO as it allows reproducible DNA extractions from matrices the other available commercial kits are not able to perform on, giving poor and uneven DNA yields.

- **DirectZol miniprep:** quick, spin column purification of high-quality (DNA-free) RNA directly from TRI Reagent® and other acid-guanidinium-phenol based reagents.

Product List	100 Test	50 Test
ION Liquid Force	EXD008	-
ION Spin DNA Prep One-for-All	-	EXD018
ION Force DNA Extractor FAST	EXD001	-
Zymo DirectZol miniprep w/Trireagent	-	EXD901



# PATHfinder

## Microbiology Kits

**PATHfinder** is the portfolio of products developed by Generon to exploit at best Real-Time PCR, and offers to the customer optimized and validated protocols to verify the presence of a wide range of pathogenic or spoilage micro-organisms by searching their DNA.

The collection includes:

- **PATHfinder Assays:** primers and probes developed on the basis of peer reviewed scientific articles after an in depth in-silico and in-vitro confirmation of the published data, blended with selected polymerases to ensure best-in-class detection. Each assay box contains target specific reagents (primers and probes), Mastermix, negative control and positive control.
- **PATHfinder SureXtra:** heat inactivated bacterial pellets at known cell count ensuring a tight control of DNA extraction process efficacy.
- **PATHfinder DigiCount:** innovative ddPCR counted calibrators for best state-of-art accuracy in genomic unit quantification.

Product List	50 Test
PATHfinder Alicyclobacillus acidoterrestris Assay	PMB48A-AT-50
PATHfinder Alicyclobacillus species guaiacol producing + Alicyclobacillus acidocaldarius Multiplex Assay «NEW»	PMB48A-G-50
PATHfinder Anisakis/Pseudoterranova Assay «NEW»	PMB66A-50
PATHfinder Bacillus cereus Assay	PMB09A-50
PATHfinder Campylobacters thermotolerant (jejunii/coli/lari) Assay	PMB04A-50
PATHfinder Clostridium botulinum Assay	PMB44A-50
PATHfinder Clostridium botulinum Assay (according to ISO-17919)	PMB67A-50
PATHfinder Clostridium perfringens Assay	PMB06A-50
PATHfinder Cronobacter sakazakii Assay	PMB08A-50



Product List	50 Test
PATHfinder Cryptosporidium Assay	PMB42A-50
PATHfinder E.coli (+ Shigella spp.) Assay	PMB14A-50
PATHfinder E.coli H:4 fliC Assay	PMB10A-H4
PATHfinder E.coli H:7 fliC Assay	PMB10A-H7
PATHfinder E.coli O:103 wzx Assay	PMB10A-P103
PATHfinder E.coli O:104 wzx Assay	PMB10A-P104
PATHfinder E.coli O:111 wbdL Assay	PMB10A-P111
PATHfinder E.coli O:121 wzx Assay	PMB10A-P121
PATHfinder E.coli O:145 ihp1 Assay	PMB10A-P145
PATHfinder E.coli O:157 rfbE Assay	PMB10A-P157
PATHfinder E.coli O:26 wzx Assay	PMB10A-P26
PATHfinder E.coli O:45 wzx Assay	PMB10A-P45
PATHfinder E.coli O-serotyping with IAC duplex Assays in prealiquoted strips (according to ISO 13136)*	PMB10A-OST2
PATHfinder E.coli VTEC stx1-stx2-eae with IAC duplex Assays in prealiquoted strips (according to ISO 13136)**	PMB10A-VST
PATHfinder E.coli VTEC (eae) Assay	PMB10A-VE-50
PATHfinder E.coli VTEC (stx1) Assay	PMB10A-V1-50
PATHfinder E.coli VTEC (stx2) Assay	PMB10A-V2-50
PATHfinder E.coli VTEC stx1-stx2 & eae-IAC Duplex Assays (based on ISO 13136)	PMB10A-50
PATHfinder E.coli VTEC stx1-stx2/eae/IAC Triplex Assay (based on ISO 13136) «NEW»	PMB10M-50
PATHfinder Giardia Assay	PMB41A-50
PATHfinder Legionella Dual Assay (according to ISO 11731) «NEW»	PMB16A-50
PATHfinder Legionella pneumophila Assay (according to ISO 11731)	PMB15A-50
PATHfinder Legionella pneumophila ID Assay (according to ISO 11731)	PMB15D-SG-50
PATHfinder Legionella pneumophila Serogroup 1 Assay	PMB15D-SG1-50
PATHfinder Legionella spp. Assay	PMB18A-50
PATHfinder Listeria Dual Triplex Assay «NEW»	PMB23A-50
PATHfinder Listeria monocytogenes Assay	PMB02A-50
PATHfinder Listeria spp. Assay	PMB03A-50

\* Each strip contains 1 well for the following E.coli O157-O111-O26-O103-O145 and 3 empty wells

\*\* Each strip contains 2 wells for the following E.coli stx1-stx2-eae and 2 empty wells



Product List	50 Test
PATHfinder Pseudomonas aeruginosa Assay	PMB05A-50
PATHfinder Salmonella spp. Assay	PMB01A-50
PATHfinder Salmonella spp./Listeria monocytogenes/IAC Triplex Detection Assay	PMB64A-1-50
PATHfinder Salmonella spp./Listeria monocytogenes/IAC & stx1 - stx2/eae/IAC Triplex Detection Assay	PMB64A-50
PATHfinder Salmonella spp. + Listeria monocytogenes (FAM)/IAC (HEX) Duplex Detection Assay	PMB64A-3-50
PATHfinder Salmonella spp. + Listeria monocytogenes (FAM)/IAC (HEX) & stx1 + stx2 (FAM)/eae (HEX) Duplex Detection Assay *	PMB64A-2-50
PATHfinder Shigella spp. Assay	PMB61A-50
PATHfinder Shigella/E.coli Discrimination Assay	PMB58A-50
PATHfinder Staphylococcus aureus Assay	PMB11A-50
PATHfinder Vibrio (Vp - Vv - Vc) Multiplex Assay «NEW»	PMB13A-M-50
PATHfinder Vibrio parahaemolyticus tlh/tdh/trh Triplex Assay «NEW»	PMB17A-50
PATHfinder Xanthomonas campestris pv. Assay	PMB62A-50
PATHfinder Yersinia enterocolitica Assay	PMB07A-50
PATHfinder Yersinia pseudotuberculosis Assay	PMB60A-50

\* This Assay contains 2 different mix

Product List	4 x 50 Tests
PATHfinder Clostridium botulinum ID Assay (according to ISO 17919)	PMB67A-ID

Product List	>120 000 GUs in 120 µl
PATHfinder Legionella pneumophila DigiCount	PMB15R
PATHfinder Legionella spp. DigiCount	PMB18R



# PATHfinder Microbiology Kits

Product List	50 Vials - 100000 CFU/vial
PATHfinder Bacillus Cereus sureXtra	PMB09X
PATHfinder Clostridium botulinum sureXtra (amplicon according to ISO-17919)	PMB67X
PATHfinder E.coli O:103 sureXtra	PMB10X-P103
PATHfinder E.coli O:104 sureXtra	PMB10X-P104
PATHfinder E.coli O:111 sureXtra	PMB10X-P111
PATHfinder E.coli O:121 sureXtra	PMB10X-P121
PATHfinder E.coli O:145 sureXtra	PMB10X-P145
PATHfinder E.coli O:157 sureXtra	PMB10X-P157
PATHfinder E.coli O:26 sureXtra	PMB10X-P26
PATHfinder E.coli O:45 sureXtra	PMB10X-P45
PATHfinder E.coli VTEC (stx1+stx2+eae) sureXtra	PMB10X-M
PATHfinder Listeria monocytogenes sureXtra	PMB02X
PATHfinder Salmonella sureXtra	PMB01X
PATHfinder Staphylococcus aureus sureXtra	PMB11X
PATHfinder Alicyclobacillus acidocaldarius sureXtra	PMB48X-AC
PATHfinder Alicyclobacillus acidoterrestris sureXtra	PMB48X-AT
PATHfinder Clostridium botulinum sureXtra	PMB44X





# MODfinder

## GMO Kits

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**MODfinder** 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 quantification of a wide selection of specific and generic GMO events according to EU norms.

Using MODfinder products along with an appropriate DNA extraction method enables to test the presence of GMOs in the most diverse matrices: Bulk/Raw Ingredients, Semi-finished products, Finished products.

The development and application of reliable detection and quantitative analytical methods was essential for the implementation of the labelling rules. Real-time PCR is the gold standard in GMO analysis according to ISO norms.

The molecular analysis required to comply with the current European Union GMO legislation consist of three distinct steps:

- **Detection**
- **Identification**
- **Quantification**

**MODfinder Screening Assays** collection includes:

- **Real-Time assays** for all the relevant screening target (including gene and construct specific assays) and allows their detection in single-plex or multiplex. Assays were developed following indications published in the JRC “Compendium of reference methods for GMO analysis” or in other peer reviewed scientific literature.
- **Plant/Eukaryotic generic marker** to determine the overall amplificability of the extracted DNA when ingredient are not known.

Each assay box contains target specific reagents (primers and probes), Mastermix, negative control and positive control.



Product List	50 Test
MODfinder 35s Promoter Assay	PGE01A-50
MODfinder 35s Promoter Quantitative test Assay	PGE01Q-50
MODfinder CaMV Assay	PGE02A-50
MODfinder 35s Terminator Assay	PGE03A-50
MODfinder nos terminator Assay	PGE04A-50
MODfinder tnos Quantitative test Assay	PGE04Q-50
MODfinder p35s + tnos Duplex Assay	PGE05A-50
MODfinder nptII Assay	PGE07A-50
MODfinder pat Assay	PGE14A-50
MODfinder bar Assay	PGE15A-50
MODfinder cp4-epsps Assay	PGE16A-50
MODfinder p-fmv Assay	PGE17A-50
MODfinder cry1ab/ac Assay	PGE25A-50
MODfinder MultiSCREEN p35s/tnos/p-fmv Assay 3-plex + IAC «NEW»	PGE26A-C-50
MODfinder nos Promoter	PGE27A-50
MODfinder MultiSCREEN nptII/pat/cp4epsps Assay 3-PLEX	PGE32A-50
MODfinder MultiENDO Corn/Soy/Rapeseed/Cotton Assay 4-PLEX «NEW»	PGE33A-50
MODfinder MultiSCREEN p35s/tnos/pfmv/bar Assay 4-PLEX «NEW»	PGE34A-50
MODfinder MultiSCREEN nptII/pat/cp4epsps/pnos Assay 4-PLEX «NEW»	PGE35A-50
MODfinder MultiSCREEN cp4epsps/pat/bar Assay 3-plex	PGE38A-50
MODfinder CaMV/fmv Duplex Assay «NEW»	PGE39A-50



### MODfinder Identification Assays

MODfinder Identification Assays were developed to detect the only unique signature of a transformation event that is the junction at the integration locus between the recipient genome and the inserted DNA. The identification of the GMO contaminating the matrix under investigation is a fundamental step when considering the labelling rules enforced in Europe.

Quantitation of GMO contamination must be in fact relative to something. In European legislation it refers to the presence w/w relative to the ingredient and not to the whole product. Therefore knowing exactly which is the event to quantify is crucial.

Product List	50 Test
MODfinder MultiSCREEN <i>cp4epsps/pat/bar/nptII</i> Assay 4-plex «NEW»	PGE42A-50
MODfinder MultiENDO Corn/Soy Duplex Assay «NEW»	PGE43A-50
MODfinder <i>cp4epsps/bar</i> Duplex Assay «NEW»	PGE44A-50
MODfinder 35s Terminator/ <i>pat</i> Duplex Assay «NEW»	PGE45A-50
MODfinder MultiSCREEN <i>p35S/tnos/pfmv/t35s</i> Assay 4-plex «NEW»	PGE47A-50
MODfinder 28s Assay (eukarya ENDO)	PGE06A-50
MODfinder Chloroplast (plant ENDO) Assay	PGE08A-50
MODfinder Lectin (Soy ENDO) Assay	PGE09A-50
MODfinder Zeine (Corn ENDO) Assay	PGE10A-50
MODfinder Invertase (Corn ENDO) Assay	PGE11A-50
MODfinder Flax ENDO Assay	PGE12A-50
MODfinder Rice Phospholipase ENDO Assay	PGE13A-50
MODfinder Canola (Rapeseed) ENDO Assay	PGE19A-50
MODfinder Potato ENDO Assay	PGE20A-50
MODfinder Cotton ENDO Assay	PGE21A-50
MODfinder Sugar Beet ENDO Assay	PGE22A-50
MODfinder ADH1 (Corn ENDO) Assay	PGE23A-50
MODfinder HMG (Corn ENDO) Assay	PGE24A-50
MODfinder Tomato ENDO Assay	PGE28A-50
MODfinder Wheat ENDO Assay	PGE29A-50
MODfinder Bean ENDO Assay	PGE30A-50
MODfinder Papaya ENDO Assay	PGE31A-50



### MODfinder Quantitative kits

MODfinder Quantitative Assays were developed to quantify the presence of a GMO in a sample according to EU indications.

For quantitation, the copy number of the GM PCR target relative to genome copies of the corresponding species is important because the principle of quantitation of GM content is to compare the relative ratio of these two. Usually, a PCR targeting a species-specific single copy gene is used to determine the amount of the species derived DNA, for example the soybean lectin gene for soya-derived DNA.

Using Real-Time PCR Quantitation can be done by comparison with a standard curve obtained by using DNA extracts from reference materials. In standard curve quantitation, the final quantitative estimate is based on comparing estimated quantity of GM to estimated quantity of reference TAXA.

All MODfinder Quantitative Assays allows for qualitative DNA detection with a detection limit down to 0.01% w/w depending on matrix and DNA preparation. Each assay contains event specific mix (primers and probe), taxon specific mix (primers and probe), Mastermix, standard solutions at 5 scalar target GM concentration, taxon DNA standard solutions at 5 scalar concentration and negative control.

Standard solutions are obtained extracting lot traceable reference materials using Ion-Force DNA Extraction kit.

Rice	50 Test
MODfinder Rice LL601 Assay	PGR01A-50
MODfinder Rice LL62 Assay	PGR02A-50
MODfinder Rice LL62 Quantitative Assay	PGR02Q-50
MODfinder Rice BT63 Assay	PGR03A-50

Corn	50 Test
MODfinder Corn Bt176 Assay	PGC01A-50
MODfinder Corn Bt176 Quantitative Assay	PGC01Q-50
MODfinder Corn MON 810 Assay	PGC02A-50
MODfinder Corn MON 810 Quantitative Assay	PGC02Q-50
MODfinder Corn T25 Assay	PGC03A-50
MODfinder Corn T25 Quantitative Assay	PGC03Q-50
MODfinder Corn BT11 Assay	PGC04A-50
MODfinder Corn BT11 Quantitative Assay	PGC04Q-50
MODfinder Corn NK603 Assay	PGC05A-50
MODfinder Corn NK603 Quantitative Assay	PGC05Q-50



Corn	50 Test
MODfinder Corn CBH-351 Assay	PGC06A-50
MODfinder Corn GA21 Assay	PGC07A-50
MODfinder Corn GA21 Quantitative Assay	PGC07Q-50
MODfinder Corn TC1507 HERCULEX Assay	PGC08A-50
MODfinder Corn TC1507 HERCULEX Quantitative Assay	PGC08Q-50
MODfinder Corn MON 863 Assay	PGC09A-50
MODfinder Corn MON 863 Quantitative Assay	PGC09Q-50
MODfinder Corn MIR 604 Assay	PGC10A-50
MODfinder Corn MIR 604 Quantitative Assay	PGC10Q-50
MODfinder Corn DAS 59122 Assay	PGC11A-50
MODfinder Corn DAS 59122 Quantitative Assay	PGC11Q-50
MODfinder Corn DBT 418 Assay	PGC12A-50
MODfinder Corn 98140 Assay	PGC13A-50
MODfinder Corn 98140 Quantitative Assay	PGC13Q-50
MODfinder Corn MIR 162 Assay	PGC14A-50
MODfinder Corn MIR 162 Quantitative Assay	PGC14Q-50
MODfinder Corn BT10 Assay	PGC15A-50
MODfinder Corn LY038 Assay	PGC16A-50
MODfinder Corn Event 3272 Assay	PGC17A-50
MODfinder Corn Event 3272 Quantitative Assay	PGC17Q-50
MODfinder Corn MON88017 Assay	PGC19A-50
MODfinder Corn MON88017 Quantitative Assay	PGC19Q-50
MODfinder Corn MON89034 Assay	PGC20A-50
MODfinder Corn MON89034 Quantitative Assay	PGC20Q-50
MODfinder Corn DAS 40278 Assay	PGC22A-50
MODfinder Corn DAS 40278 Quantitative Assay	PGC22Q-50
MODfinder Corn MON87460 Assay	PGC23A-50
MODfinder Corn MON87460 Quantitative Assay	PGC23Q-50
MODfinder Corn Event 5307 Assay	PGC24A-50



Corn	50 Test
MODfinder Corn Event 5307 Quantitative Assay	PGC24Q-50
MODfinder Corn MON87427 Assay	PGC25A-50
MODfinder Corn MON87427 Quantitative Assay	PGC25Q-50
MODfinder Corn VCO-01981-5 Assay	PGC26A-50
MODfinder Corn VCO-01981-5 Quantitative Assay	PGC26Q-50
MODfinder Corn MON87411 Assay	PGC27A-50
MODfinder Corn MON87411 Quantitative Assay	PGC27Q-50
MODfinder MultiSCREEN Corn LY038/98140/DAS40278-9 Assay 3-plex	PGC28A-50

Sugar beet	50 Test
MODfinder Sugar beet RURH7-1 Assay	PGB01A-50
MODfinder Sugar beet RURH7-1 Quantitative Assay	PGB01Q-50

Potato	50 Test
MODfinder Potato AMFLORA Assay	PGP01A-50
MODfinder Potato AMFLORA Quantitative Assay	PGP01Q-50

Flax	50 Test
MODfinder Flax FP967 Assay	PGF01A-50

Soybean	50 Test
MODfinder Soybean A2704-12 Assay	PGS01A-50
MODfinder Soybean A2704-12 Quantitative Assay	PGS01Q-50
MODfinder Soybean GTS 40-3-2 (RoundUp Ready) Assay	PGS02A-50
MODfinder Soybean GTS 40-3-2 (RoundUp Ready) Quantitative Assay	PGS02Q-50
MODfinder Soybean A5547-127 Assay	PGS03A-50
MODfinder Soybean A5547-127 Quantitative Assay	PGS03Q-50
MODfinder Soybean MON89788 Assay	PGS04A-50
MODfinder Soybean MON89788 Quantitative Assay	PGS04Q-50
MODfinder Soybean DP305423 Assay	PGS05A-50
MODfinder Soybean DP305423 Quantitative Assay	PGS05Q-50
MODfinder Soybean DP356043 Assay	PGS06A-50
MODfinder Soybean DP356043 Quantitative Assay	PGS06Q-50



Soybean	50 Test
MODfinder Soybean MON87701 Assay	PGS07A-50
MODfinder Soybean MON87701 Quantitative Assay	PGS07Q-50
MODfinder Soybean CV127 Assay	PGS08A-50
MODfinder Soybean CV127 Quantitative Assay	PGS08Q-50
MODfinder Soybean MON87705 Assay	PGS09A-50
MODfinder Soybean MON87705 Quantitative Assay	PGS09Q-50
MODfinder Soybean MON87769 Assay	PGS10A-50
MODfinder Soybean MON87769 Quantitative Assay	PGS10Q-50
MODfinder Soybean FG72 Assay	PGS11A-50
MODfinder Soybean FG72 Quantitative Assay	PGS11Q-50
MODfinder Soybean DAS44406 Assay	PGS12A-50
MODfinder Soybean DAS44406 Quantitative Assay	PGS12Q-50
MODfinder Soybean DAS68416 Assay	PGS13A-50
MODfinder Soybean DAS68416 Quantitative Assay	PGS13Q-50
MODfinder Soybean DAS81419 Assay	PGS14A-50
MODfinder Soybean DAS81419 Quantitative Assay	PGS14Q-50
MODfinder Soybean MON87708 Assay	PGS15A-50
MODfinder Soybean MON87708 Quantitative Assay	PGS15Q-50
MODfinder MultiSCREEN Soy CV127/DP305423/MON87701 Assay 3-PLEX	PGS16A-50
MODfinder MultiSCREEN Soy A2704/A5547/DP356043 Assay 3-PLEX	PGS18A-50
MODfinder Soybean MON87751 Assay	PGS19A-50
MODfinder Soybean MON87751 Quantitative Assay	PGS19Q-50
MODfinder Soybean SYHT0H2 Assay	PGS20A-50
MODfinder Soybean SYHT0H2 Quantitative Assay	PGS20Q-50
MODfinder MultiSCREEN Soy CV127+MON87701/DP305423+DP356043/MON87708+MON87769 Assay 3-PLEX	PGS21A-50

Cotton	50 Test
MODfinder Cotton MON 531 Assay	PGT01A-50
MODfinder Cotton MON 531 Quantitative Assay	PGT01Q-50
MODfinder Cotton MON 1445 Assay	PGT02A-50
MODfinder Cotton MON 1445 Quantitative Assay	PGT02Q-50



<b>Cotton</b>	<b>50 Test</b>
MODfinder Cotton 281-24-236 Assay	PGT03A-50
MODfinder Cotton 281-24-236 Quantitative Assay	PGT03Q-50
MODfinder Cotton 3006-210-23 Assay	PGT04A-50
MODfinder Cotton 3006-210-23 Quantitative Assay	PGT04Q-50
MODfinder Cotton LL 25 Assay	PGT05A-50
MODfinder Cotton LL 25 Quantitative Assay	PGT05Q-50
MODfinder Cotton MON 15985 Assay	PGT06A-50
MODfinder Cotton MON 15985 Quantitative Assay	PGT06Q-50
MODfinder Cotton GHB 614 Assay	PGT07A-50
MODfinder Cotton GHB 614 Quantitative Assay	PGT07Q-50
MODfinder Cotton MON 88913 Assay	PGT08A-50
MODfinder Cotton MON 88913 Quantitative Assay	PGT08Q-50
MODfinder Cotton GHB119 Assay	PGT09A-50
MODfinder Cotton GHB119 Quantitative Assay	PGT09Q-50
MODfinder Cotton T304-40 Assay	PGT10A-50
MODfinder Cotton T304-40 Quantitative Assay	PGT10Q-50

<b>Canola</b>	<b>50 Test</b>
MODfinder Canola MS8 Assay	PGZ01A-50
MODfinder Canola MS8 Quantitative Assay	PGZ01Q-50
MODfinder Canola RF3 Assay	PGZ02A-50
MODfinder Canola RF3 Quantitative Assay	PGZ02Q-50
MODfinder Canola RT73 Assay	PGZ03A-50
MODfinder Canola RT73 Quantitative Assay	PGZ03Q-50
MODfinder Canola T45 Assay	PGZ04A-50
MODfinder Canola T45 Quantitative Assay	PGZ04Q-50
MODfinder Canola HCN92 Assay	PGZ05A-50
MODfinder Canola HCN92 Quantitative Assay	PGZ05Q-50
MODfinder Canola RF1 Assay	PGZ06A-50
MODfinder Canola RF1 Quantitative Assay	PGZ06Q-50





Canola	50 Test
MODfinder Canola RF2 Assay	PGZ07A-50
MODfinder Canola RF2 Quantitative Assay	PGZ07Q-50
MODfinder Canola OXY-235 Assay	PGZ08A-50
MODfinder Canola OXY-235 Quantitative Assay	PGZ08Q-50
MODfinder Canola MS1 Assay	PGZ09A-50
MODfinder Canola MS1 Quantitative Assay	PGZ09Q-50
MODfinder Canola DP073496 Assay	PGZ10A-50
MODfinder Canola DP073496 Quantitative Assay	PGZ10Q-50
MODfinder Canola MON88302 Assay	PGZ11A-50
MODfinder Canola MON88302 Quantitative Assay	PGZ11Q-50
MODfinder MultiSCREEN Canola Ms8/T45/Rf3 Assay 3-PLEX «NEW»	PGZ31A-50
MODfinder Canola RF1 Quantitative Assay	PGZ06Q-50

### MODfinder AquAdvantage Salmon

Now salmon is the first genetically modified animal to be approved for human consumption although only in a few countries. The MODfinder AquAdvantage Salmon Assay detects the genetic modification on the growth hormone-regulating gene of this genetically modified salmon.

Salmon	50 Test
MODfinder AquAdvantage Salmon Assay	PGX01A-50



### MODfinder SemiQ Controls

**MODfinder SemiQ Controls** are purified DNA extracted 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...) when unknown samples are normalized at the same DNA concentration, they allow for a convenient estimation of contamination level without the need of more expensive classical quantification experiments.

**MODfinder semiQ controls** are available in **120 µl vials** at a standard concentration of **3 ng DNA/µl** and a **0.2% GM contamination**, custom concentrations and cut-off are available on demand.

Product List	120 ul 0,2% 3 ng/ul
MODfinder Sugar beet RURH7-1 SemiQ Control	PGB01R
MODfinder Corn Bt176 SemiQ Control	PGC01R
MODfinder Corn MON 810 SemiQ Control	PGC02R
MODfinder Corn T25 SemiQ Control	PGC03R
MODfinder Corn BT11 SemiQ Control	PGC04R
MODfinder Corn NK603 SemiQ Control	PGC05R
MODfinder Corn GA21 SemiQ Control	PGC07R
MODfinder Corn TC1507 HERCULEX SemiQ Control	PGC08R
MODfinder Corn MON 863 SemiQ Control	PGC09R
MODfinder Corn MIR 604 SemiQ Control	PGC10R
MODfinder Corn DAS 59122 SemiQ Control	PGC11R
MODfinder Corn 98140 SemiQ Control	PGC13R
MODfinder Corn MIR 162 SemiQ Control	PGC14R
MODfinder Corn Event 3272 SemiQ Control	PGC17R
MODfinder Corn MON88017 SemiQ Control	PGC19R
MODfinder Corn MON89034 SemiQ Control	PGC20R
MODfinder Corn DAS 40278 SemiQ Control	PGC22R
MODfinder Corn MON87460 SemiQ Control	PGC23R
MODfinder Corn Event 5307 SemiQ Control	PGC24R
MODfinder Corn MON87427 SemiQ Control	PGC25R
MODfinder Corn VCO-01981-5 SemiQ Control	PGC26R



Product List	120 ul 0,2% 3 ng/ul
MODfinder Corn MON87411 SemiQ Control	PGC27R
MODfinder 35S Promoter SemiQ Control	PGE01R
MODfinder 35S Terminator SemiQ Control	PGE03R
MODfinder NOS terminator SemiQ Control	PGE04R
MODfinder p35S + tNOS Duplex SemiQ Control	PGE05R
MODfinder NPTII SemiQ Control	PGE07R
MODfinder PAT SemiQ Control	PGE14R
MODfinder BAR SemiQ Control	PGE15R
MODfinder CP4-EPSPS SemiQ Control	PGE16R
MODfinder p-FMV SemiQ Control	PGE17R
MODfinder Cry1Ab SemiQ Control	PGE25R
MODfinder NOS Promoter SemiQ Control	PGE27R
MODfinder Potato AMFLORA SemiQ Control	PGP01R
MODfinder Rice LL62 SemiQ Control	PGR02R
MODfinder Soybean A2704-12 SemiQ Control	PGS01R
MODfinder Soybean GTS 40-3-2 (RoundUp Ready) SemiQ Control	PGS02R
MODfinder Soybean A5547-127 SemiQ Control	PGS03R
MODfinder Soybean MON89788 SemiQ Control	PGS04R
MODfinder Soybean DP305423 SemiQ Control	PGS05R
MODfinder Soybean DP356043 SemiQ Control	PGS06R
MODfinder Soybean MON87701 SemiQ Control	PGS07R
MODfinder Soybean CV127 SemiQ Control	PGS08R
MODfinder Soybean MON87705 SemiQ Control	PGS09R
MODfinder Soybean MON87769 SemiQ Control	PGS10R
MODfinder Soybean FG72 SemiQ Control	PGS11R
MODfinder Soybean DAS44406 SemiQ Control	PGS12R
MODfinder Soybean DAS6846 SemiQ Control	PGS13R
MODfinder Soybean DAS81419 SemiQ Control	PGS14R
MODfinder Soybean MON87708 SemiQ Control	PGS15R
MODfinder Soybean MON87751 SemiQ Control	PGS19R
MODfinder Soybean SYHT0H2 SemiQ Control	PGS20R
MODfinder Cotton MON 531 SemiQ Control	PGT01R
MODfinder Cotton MON 1445 SemiQ Control	PGT02R



Product List	120 ul 0,2% 3 ng/ul
MODfinder Cotton 281-24-236 SemiQ Control	PGT03R
MODfinder Cotton 3006-210-23 SemiQ Control	PGT04R
MODfinder Cotton LL 25 SemiQ Control	PGT05R
MODfinder Cotton MON 15985 SemiQ Control	PGT06R
MODfinder Cotton GHB 614 SemiQ Control	PGT07R
MODfinder Cotton MON 88913 SemiQ Control	PGT08R
MODfinder Cotton GHB119 SemiQ Control	PGT09R
MODfinder Cotton T304-40 SemiQ Control	PGT10R
MODfinder Canola MS8 SemiQ Control	PGZ01R
MODfinder Canola RF3 SemiQ Control	PGZ02R
MODfinder Canola RT73 SemiQ Control	PGZ03R
MODfinder Canola T45 SemiQ Control	PGZ04R
MODfinder Canola HCN92 SemiQ Control	PGZ05R
MODfinder Canola RF1 SemiQ Control	PGZ06R
MODfinder Canola RF2 SemiQ Control	PGZ07R
MODfinder Canola OXY-235 SemiQ Control	PGZ08R
MODfinder Canola MS1 SemiQ Control	PGZ09R
MODfinder Canola DP073496 SemiQ Control	PGZ10R
MODfinder Canola MON88302 SemiQ Control	PGZ11R

Thanks to the collaboration with major food testing entities and ddPCR technology implemented at the R&D department, **Generon is able to provide MODfinder ddPCR quantified controls copy number counted positive controls for any target including some GMO that have no standard material available.**

Product List	>120 000 GUs in 120 µl
MODfinder Corn MON 810 ddPCR Quantified Reference Material	PGC02D
MODfinder Corn MON89034 ddPCR Quantified Reference Material	PGC20D
MODfinder Corn NK603 ddPCR Quantified Reference Material	PGC05D
MODfinder Soybean A2704-12 ddPCR Quantified Reference Material	PGS01D
MODfinder Soybean GTS 40-3-2 (RoundUp Ready) ddPCR Quantified Reference Material	PGS02D
MODfinder Soybean A5547-127 ddPCR Quantified Reference Material	PGS03D
MODfinder Soybean MON89788 ddPCR Quantified Reference Material	PGS04D
MODfinder Soybean DP356043 ddPCR Quantified Reference Material	PGS06D
MODfinder Soybean MON87701 ddPCR Quantified Reference Material	PGS07D



# SPECIALfinder

## Allergen Kits

DNA is a very stable molecule being almost unaffected by food processing whereas proteins are easily denatured hampering the detection through antibody based techniques.

**SPECIALfinder Real-Time PCR Assays** detect DNA sequences indicative of the presence of allergenic species. Each assay box contains target specific reagents (primers and probes), **Mastermix, negative control and positive control**. DNA extraction and purification are critical steps in a PCR experiment as the efficiency and sensitivity of a PCR depend on the purity and yield of the extracted DNA. **These parameters are deeply impacted by the matrix.**

Tests 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 towards a large number of food ingredients to avoid false positives. All the tests are made using prime-quality molecular biology grade reagents.

### **SPECIALfinder MC assays «NEW»**

**SPECIALfinder MC** is the new product line developed by Generon. This real-time PCR assay was developed at Generon to maximize the sensitivity of allergen detection by taking advantage of higher DNA copies allergen-specific available into each cell of the allergen.

The result of this improvement is on augmented chance of rapid detection and identification of allergens in environmental swabs and in various complex food/feed matrices (after on appropriate DNA extraction).

Product List	50 Test
SPECIALfinder MC Soy kit	PAV01M-50
SPECIALfinder MC Peanut Kit	PAV02M-50
SPECIALfinder Peanut Acc. To DIN CEN/TS 15634-4 Assay	PAV02CEN-50
SPECIALfinder MC Hazelnut Kit	PAV03M-50
SPECIALfinder Hazelnut Acc. To DIN CEN/TS 15634-3 Assay	PAV03CEN-50
SPECIALfinder MC Pecan Nut Kit	PAV05M-50
SPECIALfinder MC Walnut kit	PAV06M-50
SPECIALfinder MC Pistachio Nut Kit	PAV07M-50



## SPECIALfinder Allergen Kits

Product List	50 Test
SPECIALfinder MC Cashew Kit	PAV08M-50
SPECIALfinder MC Almond Kit	PAV09M-50
SPECIALfinder Rye Assay	PAV10A-50
SPECIALfinder Oats Assay	PAV11A-50
SPECIALfinder MC Sesame Kit	PAV13M-50
SPECIALfinder MC Mustard Kit	PAV14M-50
SPECIALfinder MC Celery (Sedano) Kit	PAV15M-50
SPECIALfinder Celery Acc. To DIN CEN/TS 15634-2 Assay	PAV15A-50
SPECIALfinder MC Brazil nut Kit	PAV16M-50
SPECIALfinder Gluten Assay «NEW»	PAV17A-50
SPECIALfinder MC Lupin (Lupino) Kit	PAV18M-50
SPECIALfinder Crustaceans Assay «NEW»	PAV19A-50
SPECIALfinder Fish Assay	PAV20A-50
SPECIALfinder MC Macadamia Nut Kit	PAV21M-50
SPECIALfinder Shellfish Assay	In development
SPECIALfinder Buckwheat Assay «NEW»	PAV24A-50
SPECIALfinder Barley (Orzo) Assay	PAV25A-50
SPECIALfinder MC Tree Nuts and Peanut Kit	PAV26M-50

### SPECIALfinder DigiCount

Total DNA extracted from allergens using Generon ION Force Fast DNA Extractor with SPECIALfinder Assays target sequences content quantified using Droplet Digital™ PCR technology.

Product List	>120 000 GUs in 120 µl
SPECIALfinder DigiCount Soy	PAV01R
SPECIALfinder DigiCount Peanut	PAV02R
SPECIALfinder DigiCount Hazelnut	PAV03R
SPECIALfinder DigiCount Walnut	PAV06R
SPECIALfinder DigiCount Pistachio Nut	PAV07R
SPECIALfinder DigiCount Cashew	PAV08R
SPECIALfinder DigiCount Almond	PAV09R
SPECIALfinder DigiCount Rye	PAV10R
SPECIALfinder DigiCount Sesame	PAV13R
SPECIALfinder DigiCount Celery	PAV15R
SPECIALfinder DigiCount Brazil nut	PAV16R



## SPECIALfinder SpyX

Powdered allergens dispersed in corn flour at 1000 ppm that can be used as analytical process and extraction controls with both molecular and immunochemical methods.

Product List	5 grams
SPECIALfinder SpyX Soy 1000 ppm contamination	PAV01X
SPECIALfinder SpyX Peanut 1000 ppm contamination	PAV02X
SPECIALfinder SpyX Hazelnut 1000 ppm contamination	PAV03X
SPECIALfinder SpyX Wheat 1000 ppm contamination	PAV04X
SPECIALfinder SpyX Pecan Nut 1000 ppm contamination	PAV05X
SPECIALfinder SpyX Walnut 1000 ppm contamination	PAV06X
SPECIALfinder SpyX Pistachio Nut 1000 ppm contamination	PAV07X
SPECIALfinder SpyX Cashew 1000 ppm contamination	PAV08X
SPECIALfinder SpyX Almond 1000 ppm contamination	PAV09X
SPECIALfinder SpyX Rye 1000 ppm contamination	PAV10X
SPECIALfinder SpyX Oats 1000 ppm contamination	PAV11X
SPECIALfinder SpyX Barley 1000 ppm contamination	PAV12X
SPECIALfinder SpyX Sesame 1000 ppm contamination	PAV13X
SPECIALfinder SpyX Mustard 1000 ppm contamination	PAV14X
SPECIALfinder SpyX Celery 1000 ppm contamination	PAV15X
SPECIALfinder SpyX Brazil nut 1000 ppm contamination	PAV16X
SPECIALfinder SpyX Lupin 1000 ppm contamination	PAV18X
SPECIALfinder SpyX Crustaceans 1000 ppm contamination	PAV19X
SPECIALfinder SpyX Fish 1000 ppm contamination	PAV20X
SPECIALfinder SpyX Macadamia Nut 1000 ppm contamination	PAV21X
SPECIALfinder SpyX Shellfish 1000 ppm contamination	PAV22X
SPECIALfinder SpyX Pine Nut 1000 ppm contamination	PAV23X
SPECIALfinder SpyX Buckwheat 1000 ppm contamination	PAV24X
SPECIALfinder SpyX ALLin 1000 ppm contamination	PAV99X
SPECIALfinder SpyX [Allergen] Custom Mix 2000 ppm contamination	PAV100X



# VERYfinder

## Ingredient Authenticity Kits

Real-time PCR is widely accepted as a robust assay for the species identification and quantification of nucleic acid molecules due to its higher sensitivity and specificity, allowing for a precise determination of undeclared meat fractions in processed and mixed meat products.

**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 quantification of a wide selection of animal and plant nucleic acids.

Each Assay box contains target specific reagents (primers and probes), Mastermix, negative control, 2 vials of positive control (120  $\mu$ L Target DNA at a concentration 8 ng/ $\mu$ L) extracted from raw material and heat treated material respectively.

Heat treatment performed in autoclave at 121°C for 20'.

Product List	50 Test
VERYfinder Swine ( <i>Sus domesticus</i> ) Semi-Q Assay	PMA01S-50
VERYfinder Bovine ( <i>Bos taurus</i> ) Semi-Q Assay	PMA02S-50
VERYfinder Turkey ( <i>Meleagris gallopavo</i> ) Semi-Q Assay	PMA03S-50
VERYfinder Poultry ( <i>Gallus gallus</i> ) Semi-Q Assay	PMA04S-50
VERYfinder Sheep ( <i>Ovis aries</i> ) Semi-Q Assay	PMA05S-50
VERYfinder Goat ( <i>Capra hircus</i> ) Semi-Q Assay	PMA06S-50
VERYfinder Buffalo ( <i>Bubalus bubalis</i> ) Semi-Q Assay	PMA07S-50
VERYfinder Equine ( <i>Equus caballus</i> ) Semi-Q Assay	PMA08S-50
VERYfinder Equine ( <i>Equus caballus</i> ) (EU) Assay	PMA11A-50
VERYfinder Equine ( <i>Equus caballus</i> ) (EU) SemiQ Assay	PMA11S-50
VERYfinder Rabbit ( <i>Oryctolagus cuniculus</i> ) Semi-Q Assay	PMA12S-50
VERYfinder Duck ( <i>Cairina moschata</i> ) Semi-Q Assay	PMA13S-50





## VERYfinder Ingredient Authenticity Kits

Product List	50 Test
VERYfinder Goose ( <i>Anser anser</i> ) Semi-Q Assay	PMA14S-50
VERYfinder Cat Semi-Q Assay	PMA96S-50
VERYfinder Dog Semi-Q Assay	PMA97S-50
VERYfinder Total Meat Assay	PMA99A-50
VERYfinder Veggie Semi-Q Assay	PMA99S-50

### VERYfinder Quantiscale

Each box includes 4 vials containing 120 µl of standard of target DNA (extracted from raw material) at scalar concentration (8 ng/µl; 800 pg/µl; 80 pg/µl; 8 pg/µl) dispersed in water. PMA99W can be customized but normally contains 50% each of the following DNA: Swine, Bovine DNA from each kind of meat and bovine DNA to bring total DNA amount to 1200 ng.

Product List	1 Set
VERYfinder Swine Quantiscale	PMA01W
VERYfinder Bovine Quantiscale	PMA02W
VERYfinder Turkey Quantiscale	PMA03W
VERYfinder Poultry Quantiscale	PMA04W
VERYfinder Sheep Quantiscale	PMA05W
VERYfinder Goat Quantiscale	PMA06W
VERYfinder Buffalo Quantiscale	PMA07W
VERYfinder Equine Quantiscale	PMA08W
VERYfinder Rabbit Quantiscale	PMA12W
VERYfinder Duck Quantiscale	PMA13W
VERYfinder Goose Quantiscale	PMA14W

### VERYfinder Quanticust

Each box includes 1 set of customized DNA:

- Or 5 vials containing 120 µl of standard target DNA dispersed at various customizable concentration (e.g. 100%; 50%; 10%; 1%; 0,1%) 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.



## VERYfinder Ingredient Authenticity Kits

Product List	1 Set
VERYfinder Swine QuantiCust	PMA01X
VERYfinder Bovine QuantiCust	PMA02X
VERYfinder Turkey QuantiCust	PMA03X
VERYfinder Poultry QuantiCust	PMA04X
VERYfinder Sheep QuantiCust	PMA05X
VERYfinder Goat QuantiCust	PMA06X
VERYfinder Buffalo QuantiCust	PMA07X
VERYfinder Horse QuantiCust	PMA08X
VERYfinder Rabbit QuantiCust	PMA12X
VERYfinder Duck Quanticust	PMA13X
VERYfinder Goose Quanticust	PMA14X

### VERYfinder Pure DNA Extract

Each box includes a vial containing 1200 ng of ION Force purified target DNA at a concentration 8 ng/ $\mu$ l extracted from raw material or heat treated material respectively (Heat treatment performed in autoclave at 121 °C for 20') upon customer request. PMA99R contains 60 ng of DNA from each kind of meat and bovine DNA to bring total DNA amount to 1200 ng.

Product List	1200 ng in 150 $\mu$ l Vial
VERYfinder Swine Pure DNA Extract	PMA01R
VERYfinder Bovine Pure DNA Extract	PMA02R
VERYfinder Turkey Pure DNA Extract	PMA03R
VERYfinder Poultry Pure DNA Extract	PMA04R
VERYfinder Sheep Pure DNA Extract	PMA05R
VERYfinder Goat Pure DNA Extract	PMA06R
VERYfinder Buffalo Pure DNA Extract	PMA07R
VERYfinder Horse Pure DNA Extract	PMA08R
VERYfinder Donkey Pure DNA Extract	PMA11R
VERYfinder Rabbit Pure DNA extract	PMA12R
VERYfinder Duck Pure DNA extract	PMA13R
VERYfinder Goose Pure DNA extract	PMA14R
VERYfinder Cat Pure DNA extract	PMA96R
VERYfinder Dog Pure DNA extract	PMA97R



# VERYfinder Ingredient Authenticity Kits

## VERYfinder DigiCount

Total DNA extracted from allergens using Generon ION Force Fast DNA Extractor with SPECIALfinder Assays target sequences content quantified using Droplet Digital™ PCR technology.

Product List	>120 000 GUs in 120 µl
VERYfinder DigiCount Swine DNA Extract	PMA01D
VERYfinder DigiCount Bovine DNA Extract	PMA02D
VERYfinder DigiCount Turkey DNA Extract	PMA03D
VERYfinder DigiCount Poultry DNA Extract	PMA04D
VERYfinder DigiCount Horse DNA Extract	PMA08D

## VERYfinder Dairy Products

### VERYfinder Dairies Assays

Product List	50 Tests
VERYfinder Dairies - Cow in Buffalo - Direct Milk Assay	PMA31S-50
VERYfinder Dairies - Cow DNA Assay «NEW»	PMA32S-50
VERYfinder Dairies – Sheep DNA Assay «NEW»	PMA35S-50
VERYfinder Dairies – Goat DNA Assay «NEW»	PMA36S-50

## VERYfinder Fish

### VERYfinder Fish Assays

Product List	50 Tests
VERYfinder Atlantic Cod (Gadus morhua) Assay	PFA01A-50



## VERYfinder Vegetal Testing Products

### VERYfinder Qualitative Assays

Product List	50 Test
VERYfinder Corn Assay	PSV01A-50
VERYfinder Rice Assay	PSV04A-50
VERYfinder Tomato Assay	PSV05A-50
VERYfinder Rape Assay	PSV06A-50
VERYfinder Potato Assay	PSV09A-50

### VERYfinder Quantitative Assays

First test in the market using real-time qPCR to measure the presence of soft wheat (*Triticum aestivum*) in durum wheat (*Triticum durum*). Italian regulations (D.P.R. 187/01; D.M. 12/1/96, 26/4/02) forbid to manufacture pasta with soft wheat, however a trace presence of soft wheat up to 3% is tolerated.

Product List	50 Test
VERYfinder Soft/Durum Wheat Contamination Quantitative	PSV02Q-50
VERYfinder Soft/Durum Wheat Contamination SemiQ Assay	PSV02S-50
VERYfinder Soft/Durum Wheat Contamination SemiQ Control	PSV02R (120 µl - 1% - 7 ng/µl)



# WHATfinder

## Virus Detection Kits

Hepatitis A virus (HAV) and Norovirus (NoV) are important agents of food-borne human viral illness. They are transmitted by the faecal-oral route, hence infecting their host after ingestion, followed by invasion of cells in the epithelial lining of the gut, and subsequent shedding into sewage.

HAV and NoV detection and quantification is difficult as they are non-culturable and biologically heterogeneous. However, in recent years real-time PCR has enabled confirmation and quantification of HAV and NoV.

Generon developed a portfolio of kits to provide the customers with a 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 assay box contains target specific reagents (primers and probes), negative control and positive control. Mastermix should be order apart.

Product List	50 Test
WHATfinder HAV + Norovirus I and II screening assay (based on CEN/ISO15216 Protocol)	PVW02A-50
WHATfinder HAV + Norovirus I and II Duplex ID assay (based on CEN/ISO15216 Protocol)	PVW03A-50
WHATfinder HAV + Norovirus I and II Triplex ID assay (based CEN/ISO15216 Protocol) «NEW»	PVW04A-50
WHATfinder Norovirus I and II Duplex ID assay (based on CEN/ISO15216 Protocol)	PVW07A-50
WHATfinder HAV ID assay (according to CEN/ISO15216 Protocol)	PVW08A-50
WHATfinder Norovirus Type I ID assay (according to CEN/ ISO15216 Protocol)	PVW09A-50
WHATfinder Norovirus Type II ID assay (according to CEN/ ISO15216 Protocol)	PVW10A-50

Due to matrix interferences losses of target virus can occur at several stages during sample virus extraction and RNA extraction. To control for these losses, the norm includes a thorough process control to monitor the efficacy of virions recovery. Samples are spiked prior to processing with a defined amount of a process control virus similar but genetically distinct from HAV and NoV. **Generon** selected as a process control a virus belonging to calciviridae family considered a model for simulating NoV and HAV infections.

Each assay box contains target specific reagents (primers and probes), Mastermix, negative control, positive control and process control virus. Mastermix should be order apart.

Product List	50 Test
WHATfinder Recovery Efficiency assay (according to CEN/ISO 15216Protocol) «NEW»	PVW05A-50
WHATfinder Norovirus I and II Duplex ID assay (based on CEN/ ISO15216 Protocol) with process control - Triplex assay	PVW07P-50
WHATfinder HAV ID assay (based on CEN/ISO15216 Protocol) with process control - Duplex assay	PVW08P-50
WHATfinder Rotavirus A with process control - Duplex assay	PVW11P-50
WHATfinder Rotavirus A + Norovirus I and II Triplex ID with process control - Quadruplex assay	PVW12P-50
WHATfinder Hepatitis E with process control - Duplex assay	PVW13P-50

Product List	50 Test
ReGENERase One-step Mastermix	ENG003-50
ReGENERase PLUS One-step Mastermix with Internal Amplification Control	ENG016-50

Product List	>120 000 GUs in 120 µl
WHATfinder DigiCount HAV Quantification Standard (according to CEN/ISO15216 Protocol)	PVW08R
WHATfinder DigiCount Norovirus Type I Quantification Standard (according to CEN/ISO15216 Protocol)	PVW09R
WHATfinder DigiCount Norovirus Type II Quantification Standard (according to CEN/ISO15216 Protocol)	PVW10R

“Your time  
is our  
priority”



**GENERON** is an organization with **Quality System certified** in compliance with UNI EN ISO 9001:2015.

«When I started GENERON, after two decades of work in the most important Italian contract food testing laboratory, my goal was to create a modern approach in response to a complex struggling industry. In the up to date and competitive global market purchasing and providing quality is a challenge. In direct contact with the customers I realized that little food safety issues in raw and finished materials turn into

dramatic economical losses and deterioration of brand image. At Generon we mostly aim to select and offer best-in-range and easy to use assays along with an effective, specific and just-in-time technical support. Today I can say that the company I lead is the company I wished. A customer-oriented company that provides chemical and biological QC tools analysis promptly, quickly, reliably and efficiently, using the most recent


technologies and optimizing consolidated methods. Thanks to our organizational capabilities and speed of response we have been able to achieve exceptional results placing us amongst the top players in the market. Even though ever more challenging, future offers exciting prospects and we remain high-reaching, willing to get further and to become the leading benchmark in the food & feed safety field.»



INGREDIENTS AUTHENTICITY | CHEMICAL RESIDUES  
MICROBIOLOGY | MYCOTOXINS  
ALLERGENS | GMO

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