

Microbiology/Hygiene control



Analysis for microbiological food safety

Rapid test formats for reliable microbiological analysis in food and production areas for highly specific, sensitive and fast test combinations for use with a wide range of applications.

Product testing

All kinds of commodities are potentially at risk of contamination by spoiling microorganisms and pathogens. Therefore, R-Biopharm offers reliable kits for the analysis of meat and meat products, dairy products, egg and egg products, vegetables, fruits, herbs and spices, beverages, cereals and cereal products as well as prepared meals. Well-established methods are used for both on-site testing, the classical microbiological testing or for specific detection by real-time PCR or ELISA are offered.

Production surrounding area and condition

Quality and safety standards are considered when minimizing the risk of product contamination.

Important characteristics for tests used in efficient hygiene and cleaning control are:

- High sensitivity
- Rapidness
- Repeatability

Reliability of results is important for immediate and long-term decisions.

Bacterial toxins and pathogens

RIDASCREEN®

- ELISA for the detection of bacterial toxins

Compact Dry

- Dry nutrient media for detection of pathogens



Bacteria, yeast and mould, viruses

SureFast® / GEN-IAL®

- Real-time PCR or screening and species identification
- Effective DNA/RNA extraction
- Multiplex real-time kits

Compact Dry

- Dry nutrient media for enumeration of microorganisms



Hygiene & cleaning

Compact Dry / RIDA®STAMP

- Nutrient media for detection of microorganisms

Lumitester SMART with LuciPac® Pen and LuciPac™ A3

- Sensitive AMP/ATP or AMP/ADP/ATP detection
- Automatic alignment of measured data
- Software based evaluation

RIDA®CHECK

- Detection of protein residues
- Colorimetric test for rapid cleaning control



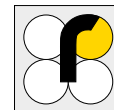


Microbiology/Hygiene control

	RIDASCREEN®	Compact Dry	SureFast®/ GEN-IAL®	RIDA®STAMP	RIDA®CHECK + LuciPac™
	ELISA	Dry medium plates	DNA prep. + real-time PCR	Direct stamp plates	Swab tests
Bacterial toxins					
Staphylococcal enterotoxin (Toxins A - E)	●				
Staphylococcal enterotoxin (Total)	●**				
Pathogens					
<i>Bacillus cereus</i> spp.		●	●		
emetic <i>Bacillus cereus</i>			●		
<i>Campylobacter</i>			●		
<i>Clostridium botulinum</i> , <i>C. estertheticum</i> , <i>C. perfringens</i>			●		
<i>Cronobacter</i> spp., <i>Cronobacter sakazakii</i>			●		
EHEC/EPEC/STEC Screening			●		
<i>Escherichia coli eae</i> gene			●		
<i>Legionella</i> spp., <i>Legionella pneumophila</i>			●		
<i>Listeria monocytogenes</i>		●	●		
MRSA			●		
Parasitic Water Panel 4plex			●		
<i>Pseudomonas aeruginosa</i>		●*	●		
<i>Salmonella</i>		●	●*	●	
<i>Salmonella</i> Serotype Enteritidis & Typhimurium			●		
<i>Staphylococcus aureus</i>		●*	●	●	
<i>Vibrio</i> spp., <i>V. parahaemolyticus</i> , <i>V. cholerae</i> , <i>V. vulnificus</i>		●	●		
<i>Yersinia enterocolitica</i>			●		
Indicator organism					
Coliform bacteria		●*		●	
Enterobacteriaceae		●*	●		
Enterococcus		●*			
<i>Escherichia coli</i>		●*	●	●	
<i>Listeria</i> spp.		●	●		
<i>Staphylococcus aureus</i>		●*	●	●	
Total count		●*		●	
Total count in tea products		●			
Total count in water samples		●			
<i>Vibrio</i> spp.		●	●		
Yeasts & Molds		●*		●	
Virus					
Hepatitis A			●		
Hepatitis E			●		
Norovirus I & II			●		
SARS-CoV-2			●*		
Beverage spoilers					
Bacteria screening & Bacteria species			●		
Yeasts screening & Yeast species			●		
Biofilm formation species			●		
Rapid hygiene monitoring					
AMP/ATP or AMP/ADP/ATP					●
Protein Test					●
Accessories	●	●			●

* Officially validated test (AFNOR/MicroVal/AOAC-RI).

** Officially validated by the European Reference Laboratory for Coagulase positive Staphylococci.



Culture medium systems for colony counting and pathogen detection in food or surface samples



Product	Description	No. of tests/amount	Art. No.
Compact Dry			
Nutrient pads			
Compact Dry AQ	Test plate with nutrient pad for quantitative detection of heterotrophic water bacteria	100 determinations 40 determinations	HS9541 HS9542
Compact Dry BC MicroVal 2019LR87	Test plate with nutrient pad for quantitative detection of <i>Bacillus cereus</i>	100 determinations 40 determinations	HS9721 HS9722
Compact Dry CC	Test plate with nutrient pad for detection of total aerobic count in tea products	100 determinations 40 determinations	HS7311 HS7312
Compact Dry CF MicroVal 2008LR03; NordVal 35; AOAC-RI 110401	Test plate with nutrient pad for quantitative detection of coliforms	100 determinations 40 determinations	HS8791 HS8792
Compact Dry EC MicroVal 2008LR04; MicroVal 2008LR05; NordVal 36; AOAC-RI 110402	Test plate with nutrient pad for quantitative detection of <i>E. coli</i> and coliforms	100 determinations 40 determinations	HS8781 HS8782
Compact Dry ETB MicroVal 2008LR02; NordVal 34; AOAC-RI 012001	Test plate with nutrient pad for quantitative detection of <i>Enterobacteriaceae</i>	100 determinations 40 determinations	HS9431 HS9432
Compact Dry ETC MicroVal 2014LR48; NordVal 47; AOAC-RI 111902	Test plate with nutrient pad for quantitative detection of <i>Enterococci</i>	100 determinations 40 determinations	HS9461 HS9462
Compact Dry LM	Test plate with nutrient pad for quantitative detection of <i>Listeria monocytogenes</i>	100 determinations 40 determinations	HS9901 HS9902
Compact Dry LS	Test plate with nutrient pad for quantitative detection of <i>Listeria spp.</i>	100 determinations 40 determinations	HS8811 HS8812
Compact Dry PA MicroVal 2017LR66	Test plate with nutrient pad for quantitative detection of <i>Pseudomonas aeruginosa</i>	100 determinations 40 determinations	HS9491 HS9492
Compact Dry SL	Test plate with nutrient pad for detection of <i>Salmonella</i>	100 determinations 40 determinations	HS9401 HS9402
Compact Dry TC MicroVal 2007LR01; NordVal 33; AOAC-RI 010401	Test plate with nutrient pad for detection of total aerobic count	100 determinations 40 determinations	HS8771 HS8772
Compact Dry VP	Test plate with nutrient pad for quantitative detection of <i>Vibrio parahaemolyticus</i> and <i>Vibrio spp.</i>	100 determinations 40 determinations	HS8821 HS8822
Compact Dry YM MicroVal RQA2008LR10; NordVal 43; AOAC-RI 100401	Test plate with nutrient pad for quantitative detection of yeast and mold	100 determinations 40 determinations	HS8801 HS8802
Compact Dry YMR MicroVal 2016LR61; NordVal 50; AOAC-RI 092002	Test plate with nutrient pad for rapid quantitative detection of yeast and mold in 48 - 72 h	100 determinations 40 determinations	HS9801 HS9802
Compact Dry X-SA MicroVal 2008LR14; NordVal 42; AOAC-RI 081001	Test plate with nutrient pad for quantitative detection of <i>Staphylococcus aureus</i>	100 determinations 40 determinations	HS9621 HS9622
Accessories			
RIDA® 0.9 % NaCl, sterile	1 mL sterile sodium chloride solution	150 pieces (1 mL each)	Z0301
Promedia ST-25	Sampling device (sterile swab in 10 mL sterile PBS buffer)	10 pieces	Z0302
Compact Dry Swab	Sampling set (sterile swabs in 1 mL PBS/peptone buffer)	40 pieces	ZCS1002953
Dilution Rack-PBS	Dilution set for preparation of 10-fold dilution series (9 mL PBS buffer per well) – sterile	128 pieces	ZDP1000888
Dilution Rack-MRD	Dilution set for preparation of 10-fold dilution series (9 mL MRD buffer per well) – sterile	128 pieces	ZDM1000889
Opener for Dilution Rack	For sterile opening of Dilution Rack	1 piece	ZOP1000887
Frame – 100 cm ²	Frame for definition of 100 cm ² for swab sampling	5 pieces	ZFR1600000



Culture medium systems for surface specimen/hygiene monitoring

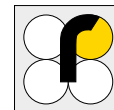
Product	Description	No. of tests/amount	Art. No.
RIDA®STAMP Coliform	Agar stamp plate for surface monitoring of coliforms on solid foods and environmental surfaces	50 determinations 25 determinations	HS0411 HS0412
RIDA®STAMP ECC	Agar stamp plate for surface monitoring of <i>E. coli</i> & coliforms on solid foods and environmental surfaces	50 determinations 25 determinations	HS0431 HS0432
RIDA®STAMP Salmonella	Agar stamp plate for surface monitoring of <i>Salmonella</i> on solid foods and environmental surfaces	25 determinations	HS0392
RIDA®STAMP S. aureus	Agar stamp plate for surface monitoring of <i>Staphylococcus aureus</i> on solid foods and environmental surfaces	25 determinations	HS0462
RIDA®STAMP Total	Agar stamp plate for surface monitoring of total count on solid foods and environmental surfaces	50 determinations 25 determinations	HS0291 HS0292
RIDA®STAMP Total Desi	Agar stamp plate for surface monitoring of total count in case of presence of disinfectants on solid foods and environmental surfaces	50 determinations 25 determinations	HS1831 HS1832
RIDA®STAMP YM-P	Agar stamp plate for surface monitoring of fungi on solid foods and environmental surfaces	50 determinations 25 determinations	HS0371 HS0372



Pathogens & bacterial toxins

DNA preparation			
SureFast® PREP Bacteria	Preparation of bacteria DNA from enrichments	100 preparations	F1021
SureFast® Speed PREP	Speed preparation of bacteria- and parasites-DNA from enrichment cultures and tissue samples	100 preparations	F1054
SureFast® Mag PREP Food	For DNA extraction of animal and plant DNA from food and feed as well as bacterial DNA from bacterial culture enrichments. For the use in combination with the TANBead Maelstrom™ 8 Autostage (Art. No. ZMAL8) and Maelstrom™ 4800	96 preparations	F1060
<i>Bacillus cereus</i> Qualitative real-time PCR			
SureFast® Bacillus cereus group PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5126
SureFast® Emetic Bacillus cereus PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5127
<i>Campylobacter</i> Qualitative real-time PCR			
SureFast® Campylobacter PLUS (<i>C. jejuni</i> , <i>C. lari</i> , <i>C. coli</i>)	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5112
SureFast® Campylobacter 4plex	Qualitative detection and differentiation of specific DNA sequences of <i>Campylobacter jejuni</i> , <i>Campylobacter lari</i> and <i>Campylobacter coli</i>	100 reactions	F5710





Pathogens & bacterial toxins

Product	Description	No. of tests/amount	Art. No.
Clostridium Qualitative real-time PCR			
SureFast® Clostridium botulinum Screening PLUS	Qualitative DNA detection Detection of <i>C. botulinum</i> toxin groups A, B, E, F Detection limit: ≤ 50 DNA copies, 1 cfu after enrichment	100 reactions	F5110
SureFast® Clostridium estertheticum PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5160
SureFast® Clostridium perfringens PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5123
Cronobacter Qualitative real-time PCR			
SureFast® Cronobacter PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5114
SureFast® Cronobacter sakazakii PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5115
E. coli Qualitative real-time PCR			
SureFast® Escherichia coli PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5157
SureFast® EHEC/EPEC 4plex	Qualitative DNA detection of virulence genes <i>stx1</i> , <i>stx2</i> , <i>eae</i> , <i>ipaH</i> (<i>E. coli/Shigella</i> spp. differentiation)	100 reactions	F5128
SureFast® STEC Screening PLUS	Qualitative DNA detection of virulence factors <i>stx1</i> and <i>stx2</i> Detection limit: ≤ 5 DNA copies	100 reactions	F5105
SureFast® STEC 4plex ONE	Qualitative detection and differentiation of <i>Escherichia coli</i> virulence factors <i>stx1</i> (subtype a-d), <i>stx2</i> (subtype a-g), <i>eae</i> and the <i>Escherichia coli</i> Serotype O157; Kit includes DNA preparation	100 reactions/ 100 preparations	F5265
SureFast® Escherichia coli Serotype I 4plex	Qualitative DNA detection of serotypes O26, O103, O121 Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5167
SureFast® Escherichia coli Serotype II 4plex	Qualitative DNA detection of serotypes O45, O111, O145 Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5168
Listeria Qualitative real-time PCR			
SureFast® Listeria Screening PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5117
SureFast® Listeria monocytogenes PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5113
Multiplex Qualitative real-time PCR			
SureFast® Foodborne Pathogens 4plex	Qualitative detection of <i>Escherichia coli</i> virulence factors (<i>stx1</i> [subtype a-d], <i>stx2</i> [subtype a-g] and <i>eae</i>), <i>Listeria monocytogenes</i> and <i>Salmonella</i> spp. Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5175



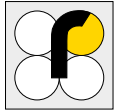


Microbiology/Hygiene control

Pathogens & bacterial toxins

Product	Description	No. of tests/amount	Art. No.
Salmonella			
DNA preparation			
SureFast® PREP Salmonella AOAC-RI 041103	DNA preparation of <i>Salmonella</i>	100 preparations	F1007
Qualitative real-time PCR			
SureFast® Salmonella PLUS AOAC-RI 041103	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5111
SureFast® Salmonella Species/Enteritidis/Typhimurium 4plex	Qualitative detection of <i>Salmonella</i> species <i>S. Enteritidis</i> and <i>S. Typhimurium</i> Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5166
Qualitative real-time PCR and DNA preparation			
SureFast® Salmonella ONE MicroVal (2014LR43; ISO 16140-2) AOAC-RI (081803)	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment Kit includes DNA preparation	100 reactions/ 100 preparations	F5211
Staphylococcus			
ELISA microtiter plates			
RIDASCREEN® SET A, B, C, D, E	Enzyme immunoassay for identification of <i>Staphylococcus</i> enterotoxins A, B, C, D and E in food and bacterial cultures Detection limit: 0.25 ng/mL toxin (0.375 ng/g)	12 determinations Incubation time: 2 h 45 min	R4101
RIDASCREEN® SET Total	Enzyme immunoassay for combined detection of <i>Staphylococcus</i> enterotoxins (A - E) in food and bacterial cultures Detection limit: 0.25 ng/mL toxin (0.375 ng/g)	96 determinations Incubation time: 2 h 45 min	R4105
Qualitative real-time PCR			
SureFast® Staphylococcus aureus PLUS	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment	100 reactions	F5116
MRSA			
Qualitative real-time PCR			
SureFast® MRSA 4plex	FAM: <i>SCCmec/orfX</i> ROX: <i>Staphylococcus aureus</i> Cy5: <i>mecA/mecC</i> Detection limit: ≤ 5 DNA copies	100 reactions	F7117
Vibrio			
Qualitative real-time PCR			
SureFast® Vibrio 4plex	Qualitative DNA detection Detection limit: ≤ 5 DNA copies, 1 cfu after enrichment (<i>V. cholerae</i> , <i>V. parahaemolyticus</i> , <i>V. vulnificus</i> + IAC)	100 reactions	F5161
Yersinia			
Qualitative real-time PCR			
SureFast® Yersinia 3plex	Qualitative DNA detection and differentiation of specific <i>ail</i> gene DNA sequences of <i>Yersinia pseudotuberculosis</i> and <i>Yersinia enterocolitica</i> Detection limit: ≤ 5 DNA copies	100 reactions	F5132





Viruses

Product	Description	No. of tests/amount	Art. No.
DNA/RNA preparation			
SureFast® PREP DNA/RNA Virus AOAC-RI 022102	DNA/RNA preparation of viruses	100 preparations	F1051
SureFast® Mag PREP Pathogens	For DNA extraction of RNA/ DNA from viruses. For the use in combination with the TANBead Maelstrom™ 8 Autostage (Art. No. ZMAL8) und Maelstrom™ 4800 (Art. No. ZMAL48)	96 preparations	F1062
SureFast® Speed PREP Virus	Extraction of virus RNA from swab samples	100 preparations	F1056
Real-time reverse transcriptase PCR (qualitative detection)			
SureFast® Norovirus/Hepatitis A 3plex	Qualitative detection of Norovirus and Hepatitis A Detection limit: ≤ 25 RNA copies	100 reactions	F7124
SureFast® Hepatitis A PLUS	Qualitative detection of Hepatitis A Detection limit: ≤ 25 RNA copies	100 reactions	F7125
SureFast® Hepatitis E PLUS	Qualitative detection of Hepatitis E Detection limit: ≤ 25 RNA copies	100 reactions	F7142
SureFast® SARS-CoV-2 PLUS AOAC-RI 022102	Qualitative detection of novel coronavirus (SARS-CoV-2) RNA Detection limit: ≤ 25 RNA copies	100 reactions	F7110



Water analysis

DNA preparation			
SureFast® PREP Aqua	DNA preparation of bacterial cells from water samples	100 preparations	F1023
Legionella			
Qualitative real-time PCR			
SureFast® Legionella Screen PLUS	Qualitative DNA detection of <i>Legionella</i> spp. Detection limit: ≤ 5 DNA copies	100 reactions	F5502
SureFast® Legionella pneumophila PLUS	Qualitative DNA detection of <i>Legionella pneumophila</i> Detection limit: ≤ 5 DNA copies	100 reactions	F5501
SureFast® Legionella 3plex	Qualitative DNA detection of <i>Legionella</i> spp. and <i>Legionella pneumophila</i> Detection limit: ≤ 5 DNA copies	100 reactions	F5505
Qualitative real-time PCR			
SureFast® Parasitic Water Panel 4plex	Qualitative DNA detection of <i>Giardia intestinalis</i> , <i>Entamoeba histolytica</i> und <i>Cryptosporidium</i> spp. Detection limit: ≤ 5 DNA copies	100 reactions	F5506
SureFast® Enterobacteriaceae Screening PLUS	Qualitative DNA detection of <i>Enterobacteriaceae</i> Detection limit: ≤ 5 DNA copies	100 reactions	F5507
SureFast® Pseudomonas aeruginosa PLUS	Qualitative DNA detection of <i>Pseudomonas aeruginosa</i> , Detection limit: ≤ 5 DNA copies	100 reactions	F5503
AMP/ATP or AMP/ADP/ATP detection			
Bioluminescence			
LuciPac™ A3 Water	Test system for hygiene control in liquid samples (based on detection of AMP/ADP/ATP); Reaction tubes with integrated sample stick for use with Lumitester PD-30 and Lumitester SMART	100 reactions	ZLA1003672
LuciPac® Pen AQUA	Test system for hygiene control in liquid samples (based on detection of AMP/ATP); Reaction tubes with integrated sample stick for use with Lumitester PD-30 and Lumitester SMART	100 reactions	ZLA1002672
Accessories			
RIDA® Clean Extract	Sample preparation kit for lubricants and paints to be used together with LuciPac® Pen AQUA LuciPac™ A3 Water	20 reactions	ZLPP1002673



* Find more products for microbiological water analysis on page 83 under "Culture medium systems for colony counting and pathogen detection".



Microbiology/Hygiene control

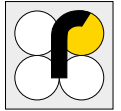
Beverage analysis

Product	Description	No. of tests/amount	Art. No.
Beer			
DNA-preparation			
GEN-IAL® Simplex® Easy DNA	DNA preparation of beverage samples	100 preparations	Q001
GEN-IAL® QuickGEN Sample Preparation Centrifugation	DNA preparation of beverage samples, centrifugation	100 preparations	Q002
GEN-IAL® QuickGEN Sample Preparation Filtration	DNA preparation of beverage samples, filtration	100 preparations	Q004
GEN-IAL® QuickGEN Yeast Sample Preparation Centrifugation	DNA preparation of beverage samples mainly containing yeast	100 preparations	Q005
GEN-IAL® PolyBIND®	Polymer for sampling	50 preparations	Q008
Qualitative multiplex real-time PCR			
GEN-IAL® QuickGEN 5plex high	DNA screening and differentiation of beer spoiling bacteria and yeasts (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus/Saccharomyces cerevisiae</i> var. <i>diastaticus/Dekkera</i> spp.)	48 reactions	Q061
GEN-IAL® QuickGEN 5plex low	DNA screening and differentiation of beer spoiling bacteria and yeasts (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus/Saccharomyces cerevisiae</i> var. <i>diastaticus/Dekkera</i> spp.)	48 reactions	Q062
GEN-IAL® QuickGEN 5plex white	DNA screening and differentiation of beer spoiling bacteria and yeasts (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus/Saccharomyces cerevisiae</i> var. <i>diastaticus/Dekkera</i> spp.)	48 reactions	Q063
GEN-IAL® QuickGEN 5plex MyGO Pro	DNA screening and differentiation of beer spoiling bacteria and yeasts (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus/Saccharomyces cerevisiae</i> var. <i>diastaticus/Dekkera</i> spp.)	48 reactions	Q064
GEN-IAL® QuickGEN P1 Screening high	DNA screening and differentiation of beer spoiling bacteria and yeasts (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus/Dekkera bruxellensis</i>)	48 reactions	Q091
GEN-IAL® QuickGEN P1 Screening low	DNA screening and differentiation of beer spoiling bacteria and yeasts (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus/Dekkera bruxellensis</i>)	48 reactions	Q092
GEN-IAL® QuickGEN P1 Screening white	DNA screening and differentiation of beer spoiling bacteria and yeasts (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus/Dekkera bruxellensis</i>)	48 reactions	Q093
GEN-IAL® QuickGEN P1 Screening MyGO Pro	DNA screening and differentiation of beer spoiling bacteria and yeasts (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus/Dekkera bruxellensis</i>)	48 reactions	Q094
GEN-IAL® QuickGEN P1 and <i>S. diastaticus</i> Screening high	DNA screening and differentiation of beer spoiling bacteria (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus</i>) and <i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i>	48 reactions	Q041
GEN-IAL® QuickGEN P1 and <i>S. diastaticus</i> Screening low	DNA screening and differentiation of beer spoiling bacteria (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus</i>) and <i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i>	48 reactions	Q042
GEN-IAL® QuickGEN P1 and <i>S. diastaticus</i> Screening white	DNA screening and differentiation of beer spoiling bacteria (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus</i>) and <i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i>	48 reactions	Q043
GEN-IAL® QuickGEN P1 and <i>S. diastaticus</i> Screening low MG	DNA screening and differentiation of beer spoiling bacteria (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus</i>) and <i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i>	48 reactions	Q044
GEN-IAL® QuickGEN P1 and <i>S. diastaticus</i> Screening	DNA screening and differentiation of beer spoiling bacteria (<i>Lactobacillus</i> , <i>Pediococcus/Megasphaera</i> , <i>Pectinatus</i>) and <i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i>	50 reactions	Q045



Q**1 High profile: ABI 7500, Agilent MX3005P
 Q**2 Low profile: MyGo Pro (2- and 3plex kits), ABI QuantStudio 5
 Q**3 White strips: Bio-Rad CFX96, LightCycler® 480
 Q**4 Low profile: MyGoPro (4plex kits)
 Q**5 Liquid reagents without precoated strips

Other block cycler devices may be suitable as well. Information is available on request.
 Further parameters/species detection kits are available on request. Please check the website for this.



Beverage analysis

Product	Description	No. of tests/amount	Art. No.
Beer			
Qualitative multiplex real-time PCR			
GEN-IAL® QuickGEN P1 Screening and Hop resistance high	DNA screening and differentiation of beer spoiling bacteria and hop resistance genes	48 reactions	Q051
GEN-IAL® QuickGEN P1 Screening and Hop resistance low	DNA screening and differentiation of beer spoiling bacteria and hop resistance genes	48 reactions	Q052
GEN-IAL® QuickGEN P1 Screening and Hop resistance white	DNA screening and differentiation of beer spoiling bacteria and hop resistance genes	48 reactions	Q053
GEN-IAL® QuickGEN P1 Screening and Hop resistance low MG	DNA screening and differentiation of beer spoiling bacteria and hop resistance genes	48 reactions	Q054
GEN-IAL® QuickGEN P1 Screening and Hop resistance	DNA screening and differentiation of beer spoiling bacteria and hop resistance genes	50 reactions	Q055
GEN-IAL® QuickGEN Beer yeast and bacteria differentiation high	Multiplex detection and identification of beverage spoiling bacteria and yeasts	96 reactions/24 samples	Q071
GEN-IAL® QuickGEN Beer yeast and bacteria differentiation low	Multiplex detection and identification of beverage spoiling bacteria and yeasts	96 reactions/24 samples	Q072
GEN-IAL® QuickGEN Beer yeast and bacteria differentiation white	Multiplex detection and identification of beverage spoiling bacteria and yeasts	96 reactions/24 samples	Q073
GEN-IAL® QuickGEN Beer Differentiation high	Multiplex detection (30 species) and identification (19 species) of relevant beer spoilers	96 reactions/12 samples	Q081
GEN-IAL® QuickGEN Beer Differentiation low	Multiplex detection (30 species) and identification (19 species) of relevant beer spoilers	96 reactions/12 samples	Q082
GEN-IAL® QuickGEN Beer Differentiation white	Multiplex detection (30 species) and identification (19 species) of relevant beer spoilers	96 reactions/12 samples	Q083
GEN-IAL® QuickGEN Biofilm	Specific DNA detection of <i>Lactococcus lactis</i> , <i>Leuconostoc mesenteroides</i> and <i>Wickerhamomyces anomalus</i>	50 reactions	Q095
GEN-IAL® QuickGEN Hop resistance	Specific DNA detection of hop resistance genes horA and horC/hitA and orf5	50 reactions	Q105
GEN-IAL® QuickGEN Yeast and bacteria differentiation high	Detection and differentiation of bacteria, top- and bottom fermented and wild yeasts	48 reactions/24 samples	Q121
GEN-IAL® QuickGEN Yeast and bacteria differentiation low	Detection and differentiation of bacteria, top- and bottom fermented and wild yeasts	48 reactions/24 samples	Q122
GEN-IAL® QuickGEN Yeast and bacteria differentiation white	Detection and differentiation of bacteria, top- and bottom fermented and wild yeasts	48 reactions/24 samples	Q123
GEN-IAL® QuickGEN Yeast and bacteria differentiation MyGO Pro	Detection and differentiation of bacteria, top- and bottom fermented and wild yeasts	48 reactions/24 samples	Q124
GEN-IAL® QuickGEN Enterobacteriaceae spp.	DNA detection of <i>Enterobacteriaceae</i> spp.	50 reactions	Q145
GEN-IAL® QuickGEN Yeast <i>Wickerhamomyces anomalus</i>	Specific DNA detection of <i>Wickerhamomyces anomalus</i> (<i>Pichia anomala</i>)	50 reactions	Q175
GEN-IAL® QuickGEN Yeast <i>Saccharomyces diastaticus</i> low	Specific DNA detection of <i>S. cerevisiae</i> var. <i>diastaticus</i>	48 reactions	Q182



Further parameters/species detection kits are available on request. Please check the website for this.



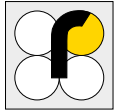
Microbiology/Hygiene control

Beverage analysis

Product	Description	No. of tests/amount	Art. No.
Wine			
DNA preparation			
GEN-IAL® Simplex® Easy Wine	DNA preparation of wine samples	100 preparations	Q300
GEN-IAL® Simplex® Easy Wine-Washing Solution	Additional washing solution for Q300	43 mL	Q301
Qualitative multiplex real-time PCR			
GEN-IAL® QuickGEN Wine Screening high	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> ; <i>Pediococcus</i> ; <i>Oenococcus oeni</i> acetic acid bacteria/yeast	48 reactions	Q321
GEN-IAL® QuickGEN Wine Screening low	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> ; <i>Pediococcus</i> ; <i>Oenococcus oeni</i> acetic acid bacteria/yeast	48 reactions	Q322
GEN-IAL® QuickGEN Wine Screening white	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> ; <i>Pediococcus</i> ; <i>Oenococcus oeni</i> acetic acid bacteria/yeast	48 reactions	Q323
GEN-IAL® QuickGEN Wine Screening low MG	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> ; <i>Pediococcus</i> ; <i>Oenococcus oeni</i> acetic acid bacteria/yeast	48 reactions	Q324
GEN-IAL® QuickGEN Wine Screening without yeast high	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> ; <i>Pediococcus</i> / <i>Oenococcus oeni</i> acetic acid bacteria	48 reactions	Q331
GEN-IAL® QuickGEN Wine Screening without yeast low	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> ; <i>Pediococcus</i> / <i>Oenococcus oeni</i> acetic acid bacteria	48 reactions	Q332
GEN-IAL® QuickGEN Wine Screening without yeast white	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> ; <i>Pediococcus</i> / <i>Oenococcus oeni</i> acetic acid bacteria	48 reactions	Q333
GEN-IAL® QuickGEN Wine Screening without yeast low MG	DNA screening and differentiation of wine spoilage bacteria and yeasts: <i>Lactobacillus</i> ; <i>Pediococcus</i> / <i>Oenococcus oeni</i> acetic acid bacteria	48 reactions	Q334
GEN-IAL® Biogenic amines	Specific DNA detection of bacteria forming biogenic amines	50 reactions	Q345
GEN-IAL® Dekkera bruxellensis Standard DNA	DNA standards for <i>Dekkera bruxellensis</i> quantification	200.000 cfu	Q360
GEN-IAL® QuickGEN Yeast Dekkera bruxellensis quantitative high	Specific DNA detection of <i>Dekkera bruxellensis</i>	48 reactions	Q371
GEN-IAL® QuickGEN Yeast Dekkera bruxellensis quantitative low	Specific DNA detection of <i>Dekkera bruxellensis</i>	48 reactions	Q372
GEN-IAL® QuickGEN Yeast Dekkera bruxellensis quantitative white	Specific DNA detection of <i>Dekkera bruxellensis</i>	48 reactions	Q373
GEN-IAL® Dekkera bruxellensis quantitative FAM/HEX	Specific DNA detection of <i>Dekkera bruxellensis</i> FAM/HEX	50 reactions	Q395



Further parameters/species detection kits are available on request. Please check the website for this.



Beverage analysis

Product	Description	No. of tests/amount	Art. No.
Qualitative multiplex real-time PCR			
GEN-IAL® QuickGEN Wild yeast 1 low	DNA screening and differentiation of wild yeast	48 reactions	Q522
GEN-IAL® QuickGEN Wild yeast 1	DNA screening and differentiation of wild yeast	50 reactions	Q525
GEN-IAL® QuickGEN Wild yeast 2 low	DNA screening and differentiation of wild yeast	48 reactions	Q532
GEN-IAL® QuickGEN Wild yeast 2	DNA screening and differentiation of wild yeast	50 reactions	Q535
GEN-IAL® QuickGEN Yeast Differentiation high	DNA screening and differentiation of 12 yeasts	96 reactions/12 samples	Q541
GEN-IAL® QuickGEN Yeast Differentiation low	DNA screening and differentiation of 12 yeasts	96 reactions/12 samples	Q542
GEN-IAL® QuickGEN Yeast Differentiation white	DNA screening and differentiation of 12 yeasts	96 reactions/12 samples	Q543
GEN-IAL® QuickGEN Yeast Zygosaccharomyces bailii high	Specific DNA detection of <i>Zygosaccharomyces bailii</i>	48 reactions	Q561
GEN-IAL® QuickGEN Yeast Zygosaccharomyces bailii low	Specific DNA detection of <i>Zygosaccharomyces bailii</i>	48 reactions	Q562
GEN-IAL® QuickGEN Yeast Zygosaccharomyces bailii white	Specific DNA detection of <i>Zygosaccharomyces bailii</i>	48 reactions	Q563
Juice			
DNA preparation			
GEN-IAL® Simplex® Easy® Spin DNA	<i>Alicyclobacillus</i> DNA extraction from fruit or vegetable juices or concentrates	50 preparations	Q701
Qualitative multiplex real-time PCR			
GEN-IAL® QuickGEN Alicyclobacillus differentiation	DNA Screening of <i>Alicyclobacillus</i> spp., <i>A. acidocaldarius</i> and <i>A. acidoterrestris</i> in fruit juices or concentrates	48 reactions	Q724
Accessories			
GEN-IAL® Colour Compensation kit	Color compensation kit for multiplex assays	5 reactions	Q800

Further parameters/species detection kits are available on request. Please check the website for this.

Test systems for cleaning control

AMP/ATP or AMP/ADP/ATP detection	Bioluminescence		
LuciPac™ A3 Surface AOAC-RI 051901	Test system for hygiene control on surfaces (based on detection of AMP/ADP/ATP). Reaction tubes with integrated swab for use with Lumitester PD-30 and Lumitester SMART	100 reactions	ZLP1003667
LuciPac® Pen	Test system for hygiene control on surfaces (based on detection of AMP/ATP). Reaction tubes with integrated swab for use with Lumitester PD-30 and Lumitester SMART	100 reactions	ZLP1002667
Protein tests		Swab tests	
RIDA®CHECK	Colorimetric test, ready-to-use swabs for the detection of protein residues on surfaces	100 determinations 40 determinations	R1091 R1092

