



Molecular Biology

Product Overview

Gene Diagnostic

Pathogen Detection

- specific single tests
- multiplex panels

real time PCR Tests

- individual risk gene (SNP) analysis
(genetic predispositions / human genetics)
- specific pathogen detection / infectiology
(bacterial / viral analysis)
- comprehensive genotyping / multiplex infection panel
(gene chip = microarray technology)

Extraction

- nucleotide isolation (rapid lysis)
- RNA / DNA isolation and purification



GENE DIAGNOSTIC (human genetic predispositions)

Product*				Method
MutaPLATE® → TaqMan	Cat. No.	MutaREAL® → FRET	Cat. No.	
MutaPLATE® ACE	KF190096	MutaREAL® ACE	KF290096	real time PCR
MutaPLATE® Aldolase B (TM)	KF190496	MutaREAL® Aldolase B (TM)	KF290496	real time PCR
MutaPLATE® Aldolase B (A174D)	KF190496-B	MutaREAL® Aldolase B (A174D)	KF290496-B	real time PCR
MutaPLATE® ApoE	KF190796	MutaREAL® ApoE	KF290796	real time PCR
MutaPLATE® COMT	KF191596	MutaREAL® COMT	KF291596	real time PCR
MutaPLATE® Cystic Fibrosis	KF190896	MutaREAL® Cystic Fibrosis	KF290896	real time PCR
MutaPLATE® DPD	KF191596	MutaREAL® DPD	KF291132	real time PCR
MutaPLATE® DPD-2	KF192096	MutaREAL® DPD-2	KF292096	real time PCR
MutaPLATE® Faktor II (TM)	KF1901696	MutaREAL® Faktor II	KF291696	real time PCR
MutaPLATE® Faktor V (TM)	KF1901796	MutaREAL® Faktor V	KF291796	real time PCR
MutaPLATE® GST-M1/T1 (TM)	KF1902196			real time PCR
MutaPLATE® GST-P1 (TM)	KF1903196			real time PCR
		MutaREAL® HFE	KF291096	real time PCR
MutaPLATE® HLA DQ 2+8 (TM)	KF190596			real time PCR
MutaPLATE® HLA DQ 2+8 PLUS (TM)	KF190596+			real time PCR
MutaPLATE® Laktase (TM)	KF1907296	MutaREAL® Laktase	KF2907196	real time PCR
MutaPLATE® MTHFR (TM)	KF1901496	MutaREAL® MTHFR (C677T) MutaREAL® MTHFR (A1298C)	KF291496-A KF291496-B	real time PCR
MutaPLATE® PAI-1	KF191996	MutaREAL® PAI-1	KF291996	real time PCR
MutaPLATE® TPMT	KF191396	MutaREAL® TPMT	KF291396	real time PCR
MutaPLATE® UGT1A1	KF191896	MutaREAL® UGT1A1	KF291896	real time PCR
MutaPLATE® VDR3/Bsm1 (TM)	KF1900496			real time PCR

Analysis Service for Genotyping:

Keyword	Product *	Cat. No.	Method
cytochrome P450 enzyme 2D6	MutaCHIP® CYP2D6	KF390005	gene chip macroarray
1A2, 2B6, 2C9, 2C19, 2D6, 3A4, 3A5, VKORC1	MutaCHIP® CYP +	KF390014	gene chip macroarray
COMT, CYBA, CYP, GST, NAT-2, SOD, MDR1	MutaCHIP® TOXO	KF390011	gene chip macroarray

... and all other parameter (SNP/real time PCR analysis) on request

PATHOGEN DETECTION (bacteria / viruses)

Keyword	Product *	Cat. No.	Method → TaqMan
Akkermansia muciniphila, Faecalibacterium prausnitzii	MutaPLEX® AKM/FAEP	KG1911-96	real time PCR
Babesia	MutaPLEX® Babesia	KG192496	real time PCR
Blastocystis (+ subtyping hominis)	MutaPLEX® Blastocystis	KG191896	real time PCR
Blastocystis (specific for ST-1-3-4-7)	MutaPLEX® Blastocystis ST-1-3-4-7	KG192196	real time PCR
Bordetella pertussis, B. parapertussis	MutaPLEX® Bordetella	KG190996	real time RT-PCR

PATHOGEN DETECTION (bacteria / viruses)

Keyword	Product *	Cat. No.	Method → TaqMan
Borrelia	MutaPLEX® Borrelia	KG1917096	<i>real time</i> PCR
Borrelia, Rickettsia	MutaPLEX® Borrelia/Rickettsia	KG194096	<i>real time</i> PCR
Bacterial vaginosis: Lactobacillus spp., Atopobium vaginae, Gardnerella vaginalis	MutaPLEX® BV-1 quant. (LAC/AV/GV)	KG197596	<i>real time</i> PCR
Clostridium difficile	MutaPLEX® C. difficile	KG194396	<i>real time</i> PCR
Coronavirus (SARS-CoV-2)	MutaPLEX® Coronavirus	KG192696	<i>real time</i> RT-PCR
Coronavirus (SARS-CoV-2)	MutaPLEX® Coronavirus 4G	KG193696	<i>real time</i> RT-PCR
Ehrlichia, Anaplasma	MutaPLEX® Ehrlichia	KG192596	<i>real time</i> PCR
Enterovirus	MutaPLEX® Enterovirus	KG190296	<i>real time</i> RT-PCR
Eubacterium, Bacteroides, Bifidobacteria	MutaPLEX® EU/BAC/BIF	KG1912-96	<i>real time</i> PCR
TBE (Tickborne encephalitis)	MutaPLEX® FSME (TBE)	KG1916096	<i>real time</i> RT-PCR
Adenovirus, Norovirus , Rotavirus	MutaPLEX® GastroSys 1	KG198696	<i>real time</i> RT-PCR
Adenovirus, Astrovirus, Sapovirus, Norovirus (G I & II), Rotavirus	MutaPLEX® GastroSys 3	KG198896	<i>real time</i> RT-PCR
Campylobacter, Salmonella, Shigella, Yersinia	MutaPLEX® GastroSys 4	KG1920-96	<i>real time</i> PCR
Group B Streptococci	MutaPLEX® GBS (Group B Streptococci)	KG191096	<i>real time</i> PCR
HSV, VZV (Varizella zoster virus)	MutaPLEX® HSV/VZV	KG190696	<i>real time</i> PCR
Legionella pneumophila	MutaPLEX® Legionella pneumophila	KG196496	<i>real time</i> PCR
Legionella species	MutaPLEX® Legionella species	KG191996	<i>real time</i> PCR
MRSA	MutaPLEX® MRSA	KG190396	<i>real time</i> PCR
MRSA	MutaPLEX® MRSA seqc	KG194196	<i>real time</i> PCR
MRSA	MutaPLEX® PVL-MRSA	KG190596	<i>real time</i> PCR
MTB (Mycobacterium tuberculosis complex)	MutaPLEX® MTB	KG190796	<i>real time</i> PCR
MTB, Non-MTB, Mycobac. avium complex	MutaPLEX® MTB/NTM/MAC	KG190896	<i>real time</i> PCR
Norovirus	MutaPLEX® Norovirus	KG190196	<i>real time</i> RT-PCR
Pneumocystis jirovecii	MutaPLEX® Pneumocystis jirovecii	KG196596	<i>real time</i> PCR
Prevotella, Ruminococcus, Lachnospiraceae	MutaPLEX® PRE/RU/LA	KG1913-96	<i>real time</i> PCR
SARS-CoV-2 viruses, Influenza viruses (A/B), Respiratory Synzytial Viruses (A/B)	MutaPLEX® RespiraScreen 1	KG192796	<i>real time</i> RT-PCR
SARS-CoV-2 viruses, Influenza viruses (A/B)	MutaPLEX® RespiraScreen 2 DIFF	KG192896	<i>real time</i> RT-PCR
SARS-CoV-2 viruses, Influenza viruses (A/B)	MutaPLEX® RespiraScreen 4 DIFF seqc	KG193796	<i>real time</i> RT-PCR
Influenza A and B viruses, Respiratory Synzytial Viruses (RSV) (specific detection)	MutaPLEX® RespiraSys 1	KG198496	<i>real time</i> RT-PCR
Rickettsia	MutaPLEX® Rickettsia	KG192396	<i>real time</i> PCR
Coronavirus (SARS-CoV-2)	MutaPLEX® SC2 multi gene	KG193096	<i>real time</i> RT-PCR
Chlamydia trachomatis, Neisseria gonorrhoe, Mycoplasma genitalium	MutaPLEX® STI-1 (CT/NG/MG)	KG197196	<i>real time</i> PCR
Trichomonas vaginalis, Mycoplasma hominis, Ureaplasma parvum + urealyticum	MutaPLEX® STI-2 (TV/MH/UPU)	KG197296	<i>real time</i> PCR
Zika, Dengue, Chikungunya, Yellow fever	MutaPLEX® Tropica 1	KG199096	<i>real time</i> PCR

PATHOGEN DETECTION (bacteria / viruses)

Keyword	Product *	Cat. No.	Method → TaqMan
Atopobium vaginae, Gardnerella vaginalis	MutaPLEX® Atopobium vaginae/Gardnerella vaginalis RUO	KSR191696	real time PCR
Candida albicans, Fungi	MutaPLEX® Candida albicans/Fungi RUO	KSR191496	real time PCR
Candida krusei, Candida glabrata	MutaPLEX® Candida krusei/Candida glabrata RUO	KSR191596	real time PCR
Chlamydia trachomatis, Neisseria gonorrhoe	MutaPLEX® Chlamydia trachomatis/Neisseria gonorrhoe RUO	KSR190196	real time PCR
Dermatophytes	MutaCHIP® DERMA RUO (human Dermatophytes)	KFR390016	Gene chip macroarray
Gastroenteritides	MutaCHIP® GASTRO RUO in preparation (human Gastroenteritis pathogens)	KFR390015	Gene chip macroarray
Herpes simplex virus (HSV)	MutaPLEX® HSV-1/HSV-2 RUO	KSR190496	real time PCR
human papilloma virus (HPV)	MutaPLEX® HPV high risk (16/18) RUO	KSR190696	real time PCR
human papilloma virus (HPV)	MutaPLEX® HPV high risk (31/33) RUO	KSR190796	real time PCR
human papilloma virus (HPV)	MutaPLEX® HPV high risk (35/45) RUO	KSR190896	real time PCR
human papilloma virus (HPV)	MutaPLEX® HPV HR genotype RUO	KSR191096	real time PCR
human papilloma virus (HPV)	MutaPLEX® HPV low risk (6/11) RUO	KSR190596	real time PCR
human papilloma virus (HPV)	MutaPLEX® HPV Screen RUO	KSR191196	real time PCR
Lactobacillus reuteri	MutaPLATE® Lactobacillus reuteri RUO	KER1901796	real time PCR
Monkeypox	MutaPLEX® Monkeypox virus RUO	KGR199296	real time PCR
Mycoplasma hominis, M. genitalium	MutaPLEX® Mycoplasma hominis/genitalium RUO	KSR190296	real time PCR
Treponema pallidum	MutaPLEX® Treponema pallidum RUO	KSR191396	real time PCR
Trichomonas vaginalis, Gardnerella vaginalis	MutaPLEX® Trichomonas vaginalis/Gardnerella vaginalis RUO	KSR191296	real time PCR
Ureaplasma parvum, urealyticum	MutaPLEX® Ureaplasma urealyticum/parvum RUO	KSR190396	real time PCR

... and for your research:

Extraction kits (nucleotide extraction) & Stool sample collection devices

Product*		Cat. No.	Method
MutaCLEAN® Mag RNA/DNA	200 preparations	KG1023	Isolation/purification kit (magnet beads)
	800 preparations	KG1024	
MutaCLEAN® PLUS	100 preparations	KG1036	Nucleotide lysis buffer (rapid lysis)
MutaCLEAN® Rapid	1000 preparations	KG1041	Nucleotide lysis buffer (rapid lysis)
MutaCLEAN® Universal RNA/DNA	200 preparations	KG1038	Isolation/purification kit (silicia columns)
MutaCLEAN® Virus on request	384 preparations	KG1025-24	Isolation/purification kit (ready-to-use magnet beads in deepwell plates)
	1536 preparations	KG1025-96	
OmicSnap® Tube (empty)	100 preparations	KV10021	Stool transport
OmicSnap® Tube (filled with buffer + ceramic beads)	100 preparations	KV10021CP	Stool transport/cell disruption

For **human genetics (predisposition analysis)** genomic DNA is used as template for PCR. This gDNA can be isolated from EDTA-blood (200 µL) or saliva swabs (or any other human cell material). For **pathogen detection** a necessary nucleotide extraction (RNA or DNA, viral or bacterial) is done from available clinical specimen, e.g. biological liquids, liquor, stool samples, swabs, tissues and others. For each specific application Immundiagnostik AG offers the respective extraction kit suited for the present clinical material source.

* For laboratory professional use only.
All products are for research use only in the U.S. Not for use in diagnostic procedures.
Contact your sales representative for more information.

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