

Catalog

Real-Time PCR diagnostic kits for antibiotic resistance detection



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RESISTOM diagnostic kits are designed for qualitative detection of genes of microorganisms responsible for antibiotic resistance and for detection of nucleic acids of microbiological agents isolated from clinical specimens. The Real-Time PCR method is used for detection.

Diagnostické centrum DNK, s. r. o. offers a wide portfolio of PCR diagnostic kits, which are registered at the State Institute for Drug Control in the Slovak Republic.

RESISTOM kits:

- ❖ comprehensive approach to PCR diagnostics includes sample preparation (DNA/RNA extraction), Real-Time PCR and evaluation of results,
- ❖ extraction of nucleic acids by **thermocoagulation** or **sorption**
- ❖ ready-to-use lyophilised reaction mixtures (Ready Master Mix) for amplification of extracted DNA/RNA,
- ❖ clinical specimens (cervical canal epithelial cell smears, urethra, vaginal swabs, throat swabs, bacterial culture, bronchoalveolar lavage, mucus, pleural fluid, urine, whole blood, positive haemoculture),
- ❖ **uniform PCR protocols** for detection on all Rezistom kits,
- ❖ storage of all components of kits at the same temperature of +2 to +8 °C (TwoStep format for 12 months, non-aliquoted format for 24 months),
- ❖ **transport** at temperatures **up to +25 °C** max. 10 days,
- ❖ compliance with **EN ISO 13485:2016** requirements

Formats of diagnostic kits:

-  **Non-aliquoted-RT-120** – preparation of amplification mixture is necessary, storage at **-20 to -18°C**, expiry **24 months** from the date of manufacture, 130 tests.
- **TwoStep-RT-96 (12x8 Strip)** – ready-to-use reaction mixtures in 0,2 ml strips under a layer of paraffin, only Taq polymerase and isolated sample need to be added, storage at **+2 to + 8°C**, expiry **12 months** from the date of manufacture, 96 tests.
- **TwoStep-RT-60 (P02)** – ready-to-use reaction mixtures in 0,2 ml strips under a layer of paraffin, only Taq polymerase and isolated sample need to be added, storage at **+2 to + 8°C**, expiry **12 months** from the date of manufacture, 60 tests.

Format of detection:

- | |
|-----------|
| RT |
|-----------|

 - Real-Time detection of PCR products (for use with **CFX-96, IQ5** (BioRad); **DT-96, DT-Lite** (DNA-Technology); **Rotor-Gene 3000,6000/Q** (Corbett Research/Qiagen); **LightCycler 96** (Roche))


NUCLEIC ACIDS EXTRACTION










Cat. №	Kit name and description	Number of tests
E0225	DNA-EXPRESS Kit for rapid isolation of DNA from various clinical material	100
E0232	NA Sorbent Base	100
E0232-4	NA Sorbent Blood Isolation of nucleic acids from whole blood	100
E02104	Hemoculture DNA Rapid Extraction Kit	100








Cat. №	Gene-marker	Kit name and description	Format	Number of tests
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RESISTANCE OF MICROORGANISMS TO ANTIBIOTICS

Monoplex kits

E01681-RT-120 E01781-RT-TS-96 E01781-RT-TS-60	<i>blaCTX-M</i>	RESISTOM.CTX-M Diagnostic kit for the detection of <i>blaCTX-M</i> cephalosporin resistance genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01682-RT-120 E01782-RT-TS-96 E01782-RT-TS-60	<i>MecA</i>	RESISTOM.MecA Diagnostic kit for detection of <i>MecA</i> β -lactam resistance gene in <i>Staphylococcus spp.</i>	 •• 12x8 Strip •• P02	130 96 60
E01865-RT-120 E01965-RT-TS-96 E01965-RT-TS-60	<i>blaOXA10</i>	RESISTOM.OXA10 Diagnostic kit for the detection of <i>blaOXA10</i> cephalosporin resistance genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01868-RT-120 E01968-RT-TS-96 E01968-RT-TS-60	<i>blaDHA</i>	RESISTOM.DHA Diagnostic kit for the detection of <i>blaDHA</i> resistance genes to protected penicillins and cephalosporins in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01684-RT-120 E01784-RT-TS-96 E01784-RT-TS-60	<i>blaVIM</i>	RESISTOM.VIM Diagnostic kit for the detection of carbapenem resistance <i>blaVIM</i> genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01685-RT-120 E01785-RT-TS-96 E01785-RT-TS-60	<i>blaNDM</i>	RESISTOM.NDM Diagnostic kit for the detection of <i>blaNDM</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01686-RT-120 E01786-RT-TS-96 E01786-RT-TS-60	<i>blaOXA48-like</i>	RESISTOM.OXA48-like Diagnostic kit for the detection of <i>blaOXA48-like</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60

Cat. №	Gene-marker	Kit name and description	Format	Number of tests
E01646-RT-120 E01746-RT-TS-96 E01746-RT-TS-60	<i>blaKPC</i>	RESISTOM.KPC Diagnostic kit for the detection of <i>blaKPC</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01860-RT-120 E01960-RT-TS-96 E01960-RT-TS-60	<i>blaGES</i>	RESISTOM.GES Diagnostic kit for the detection of <i>blaGES</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01860-RT-120 E01960-RT-TS-96 E01960-RT-TS-60	<i>blaOXA23-like</i>	RESISTOM.OXA23-like Diagnostic kit for the detection of <i>blaOXA23-like</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01862-RT-120 E01962-RT-TS-96 E01962-RT-TS-60	<i>blaOXA40-like</i>	RESISTOM.OXA40-like Diagnostic kit for the detection of <i>blaOXA40-like</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip •• P02	130 96 60
E01687-RT-120 E01787-RT-TS-96 E01787-RT-TS-60	<i>VanA</i> <i>VanB</i>	RESISTOM.Van Diagnostic kit for detection and differentiation of <i>VanA</i> and <i>VanB</i> glycopeptide resistance genes in <i>E. faecalis/E. faecium</i>	 •• 12x8 Strip •• P02	130 96 60
E01647-RT-120 E01747-RT-TS-96 E01747-RT-TS-60	<i>ErmB</i>	RESISTOM.ErmB Diagnostic kit for detection of <i>ErmB</i> resistance genes to macrolides, lincosamides and streptogramin B in <i>Streptococcus spp.</i> and <i>Staphylococcus spp.</i>	 •• 12x8 Strip •• P02	130 96 60
E01648-RT-120 E01748-RT-TS-96 E01748-RT-TS-60	<i>Mef</i>	RESISTOM.Mef Diagnostic kit for detection of <i>Mef</i> macrolide resistance genes in <i>Streptococcus spp.</i>	 •• 12x8 Strip •• P02	130 96 60
Multiplex kits				
E01873-RT-120 E01973-RT-TS-96	<i>Staphylococcus aureus</i> <i>Staphylococcus spp.</i> <i>MecA</i>	RESISTOM.MRSA Diagnostic kit for detection and differentiation of DNA of <i>Staphylococcus aureus</i> , <i>Staphylococcus spp.</i> and <i>MecA</i> β -lactam resistance gene in <i>Staphylococcus spp.</i>	 •• 12x8 Strip	130 96
E01874-RT-120 E01974-RT-TS-96	<i>Enterococcus faecalis/</i> <i>Enterococcus faecium</i> <i>VanA</i> <i>VanB</i>	RESISTOM.VRE type V Diagnostic kit for detection of <i>Enterococcus faecalis/Enterococcus faecium</i> DNA and differentiation of <i>VanA</i> and <i>VanB</i> glycopeptide resistance genes in <i>Enterococcus spp.</i>	 •• 12x8 Strip	130 96

Cat. №	Gene-marker	Kit name and description	Format	Number of tests
E01875-RT-120 E01975-RT-TS-96	<i>Acinetobacter baumannii</i> <i>blaOXA23-like</i> <i>blaOXA40-like</i>	RESISTOM.CRAB Diagnostic kit for detection of DNA of <i>Acinetobacter baumannii</i> , <i>blaOXA23-like</i> and <i>blaOXA40-like</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip	130 96
E01876-RT-120 E01976-RT-TS-96	<i>Pseudomonas aeruginosa</i> <i>blaVIM</i> <i>blaNDM</i>	RESISTOM.MDR-Pseudomonas Diagnostic kit for detection of DNA of <i>Acinetobacter baumannii</i> , <i>blaOXA23-like</i> and <i>blaOXA40-like</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip	130 96
E01877-RT-120 E01977-RT-TS-96	<i>Klebsiella pneumoniae</i> <i>blaKPC</i> <i>blaOXA48-like</i>	RESISTOM.CRE-Klebsiella Diagnostic kit for detection of DNA of <i>Klebsiella pneumoniae</i> , <i>blaKPC</i> and <i>blaOXA48-like</i> carbapenem resistance genes in Gram-negative bacteria	 •• 12x8 Strip	130 96
E01878-RT-120 E01978-RT-TS-96	<i>Escherichia coli</i> <i>blaCTX-M</i> <i>blaOXA10</i>	RESISTOM.ESBL-E.coli Diagnostic kit for detection of DNA of <i>Escherichia coli</i> , <i>blaCTX-M</i> and <i>blaOXA10</i> cephalosporin resistance genes in Gram-negative bacteria	 •• 12x8 Strip	130 96
E01879-RT-120 E01979-RT-TS-96	<i>Enterobacter species</i> <i>blaGES</i> <i>blaDHA</i>	RESISTOM.CRE-Enterobacter Diagnostic kit for detection of DNA of <i>Enterobacter species</i> , <i>blaGES</i> carbapenem resistance genes in Gram-negative bacteria and <i>blaDHA</i> resistance genes to protected penicillins and cephalosporins in Gram-negative bacteria	 •• 12x8 Strip	130 96
E01880-RT-120 E01980-RT-TS-96	<i>Streptococcus species</i> <i>Mef</i> <i>ErmB</i>	RESISTOM.MLSB-Streptococcus Diagnostic kit for detection of DNA of <i>Streptococcus species</i> , <i>Mef</i> and <i>ErmB</i> resistance genes to macrolides, lincosamides and streptogramin B in Gram-positive cocci	 •• 12x8 Strip	130 96
E01867-RT-120 E01967-RT-TS-96	<i>Enterococcus faecalis/</i> <i>Enterococcus faecium</i> <i>VanA</i> <i>VanB</i>	RESISTOM.VRE type E Diagnostic kit for detection and differentiation of DNA of <i>Enterococcus faecalis/</i> <i>Enterococcus faecium</i> and <i>VanA/VanB</i> glycopeptide resistance genes in <i>Enterococcus spp.</i>	 •• 12x8 Strip	130 96

Diagnostické centrum DNK, s.r.o.

Brestová 14, 821 02 Bratislava

+421 911 299 324, +421 911 211 404

dnk@pharma.sk, diagnostika@pharma.sk

www.pcr.sk