



bi  eksen

MOLECULAR DIAGNOSTICS

MOLECULAR DIAGNOSTIC SOLUTIONS FOR HOSPITALS





BIOEKSSEN R&D TECHNOLOGIES

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ABOUT US

>200 million tests exported to 5 continents during the pandemic period.
The export leader of Turkey in the medical field in 2021.
WHO and **FDA**-authorized products.



Founded in: 2014 **ITUARI**
TEKNOKENT

Co-founders: Professors
ITU and Boğaziçi University



>200 Products

Molecular Diagnostic Systems
Real-Time PCR Test Kits
NGS Kits



32 R&D and Innovation Projects:
2014-2019
Ministry of Industry and
Technology Funds

47 R&D and Innovation Projects:
2019-2022
Bioeksen's Own Resources



Production and R&D Istanbul, Turkey
5000 m²
2 million tests/day
ISO 13485 and 9001

Production and R&D Hannover, Germany
2000 m²
1 million test/day
ISO 13485 and 9001



ANIMAL HEALTH
**Real-Time PCR Pathogen
Detection Kits**
Poultry
Ruminant Animals



HUMAN HEALTH
Real-Time PCR Test Kits
Pathogen Detection
Mutation Detection
**NGS Library
Preparation Kits**
Whole Genome Sequencing
Targeted Gene Sequencing



**FOOD & WATER
SAFETY**
Real-Time PCR Test Kits
Pathogen Detection
Allergen Tests
Meat Species Identification
GMO Tests

BIOEKSSEN'S MDx SOLUTIONS

**PATIENT, HOSPITAL, PUBLIC...
WE HAVE A SOLUTION; EVERYONE WINS**

Sample Collection

Respiratory tract swab
Blood
CSF
Tissue
Sputum
BAL
NAP
Stool
Urine
Genital
Rectal Swab
Lesion

All targets in
microbiology

LESS THAN AN HOUR



Test Report



Smart drug usage
Targeted treatment
Hospital infection
control



JUST LOAD THE SAMPLE

Bioeksens qPCR Solutions Will Do The Rest.

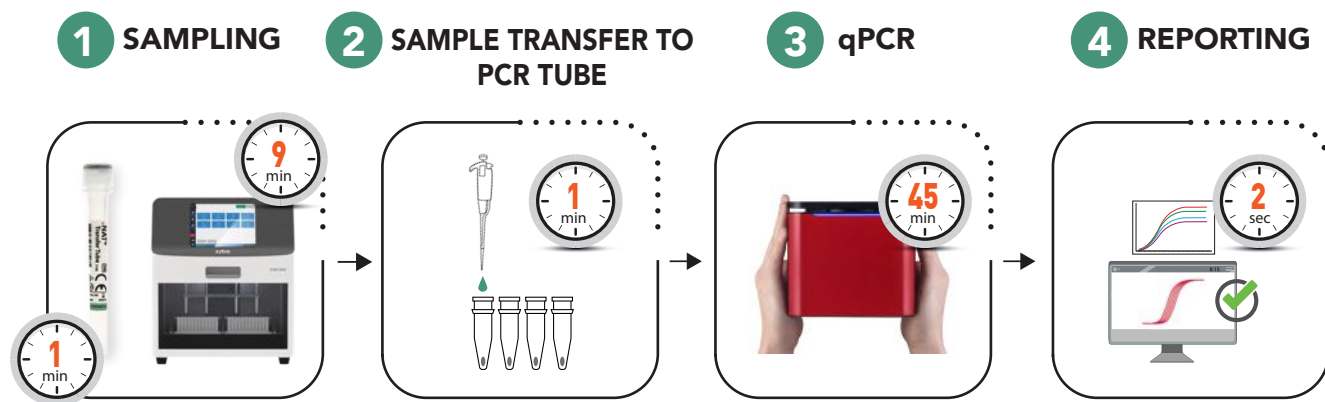
BROAD PRODUCT PORTFOLIO COVERING MANY PATHOGENS IN VARIOUS MULTIPLEXING FORMATS

- Respiratory Tract Infections
- Tuberculosis
- Bloodstream Infections
- Central Nervous System Infections
- Gastrointestinal Infections
- Sexually Transmitted Infections
- Human Papilloma Infections
- Immunocompromised Infections
- Bone & Joint Infections
- Eye Infections
- Urinary Tract Infections
- Antibiotic Resistance

FROM SAMPLE-TO-RESULT IN <60 MIN USING A SINGLE PROTOCOL FOR ALL SAMPLE TYPES

Meet Bioeksen qPCR Solutions

Combines Bioeksen's Sample Prep Technology, Stabilized qPCR Format, Sigmoida Analysis Software and BMS's Mic qPCR cycler



vNAT® Transfer Tube/ Zzybio NA Isolation System

Ready-to-use samples in qPCR
without NA extraction

Pathogen inactivation

Easy sample pipetting
due to the high liquid level

OR

Zzybio Nucleic Acid Isolation System

Single protocol for **all sample types**.
NA isolation in **9 min**.

Stabilized Reagents in the PCR tube

Eliminates the need for
PCR setup

Sample load only

Mic qPCR Cycler

Single protocol
for different assays

High testing capacity
11-47 samples/run

Hand size instrument
Just 2 kg

Sigmoida Analysis Software

Automated interpretation

The **offline software** ensures
data safety

Automated report-transfer to
the information systems

ORDERING INFORMATIONS



Sample Type	Test Target	Catalog No
Respiratory Tract Infections Combined Nasopharyngeal and Oropharyngeal Swab Throat Swab BAL Sputum NPA POC-qPCR Swab Samples in vNAT® Transfer Tube	Bacteria: Group A <i>Streptococcus</i>	BS-DTC-102
	Virus: SARS-CoV-2	BS-SY-WCOR-306
	Virus: SARS-CoV-2, Influenza A, Influenza B, RSV A/B	BS-RT4S
	Virus: SARS-CoV-2, Influenza A, Influenza B, RSV A/B, Rhinovirus, Enterovirus, Adenovirus, Coronavirus 229E/OC43/NL63/HKU1, Parainfluenza virus 1/2/3/4, Bocavirus, Metapneumovirus	BS-RTV-L
	Bacteria: Group A <i>Streptococcus</i> Virus: SARS-CoV-2, Influenza A, Influenza B, RSV A/B, Adenovirus, Rhinovirus	BS-RIDK-2
	Bacteria: Group A <i>Streptococcus</i> , <i>Streptococcus pneumoniae</i> , <i>Mycoplasma pneumoniae</i> , <i>Chlamydomphila pneumoniae</i> , <i>Haemophilus influenzae</i> Virus: SARS-CoV-2, Influenza A, Influenza B, RSV A/B, Adenovirus, Rhinovirus, Coronavirus 229E/OC43/NL63/HKU1, Parainfluenza virus 1/2/3/4	BS-RIDP-3
	Bacteria: <i>Streptococcus pyogenes</i> , <i>Streptococcus agalactiae</i> , <i>Streptococcus pneumoniae</i> , <i>Staphylococcus aureus</i> , <i>Enterobacteriaceae</i> , <i>Escherichia coli</i> , <i>Klebsiella aerogenes</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella pneumoniae</i> , <i>Enterobacter cloacae</i> complex, <i>Pseudomonas aeruginosa</i> , <i>Chlamydomphila pneumoniae</i> , <i>Haemophilus influenzae</i> , <i>Mycoplasma pneumoniae</i> , <i>Proteus spp.</i> , <i>Serratia marcescens</i> , <i>Acinetobacter calcoaceticus-baumannii</i> complex, <i>Legionella pneumophila</i> , <i>Moraxella catarrhalis</i>	BS-LRB-L
	Virus: Influenza A H1, Influenza A H3, Influenza A H5, Influenza A H7	BS-FAS Mic
	Virus: SARS-CoV-2, Influenza A, Influenza B, Coronavirus 229E-OC43-NL63-HKU1, Parainfluenza virus 1-2-3-4, Metapneumovirus, Adenovirus, Bocavirus, Enterovirus/Rhinovirus, Parechovirus, Respiratory syncytial virus A/B Bacteria: <i>Streptococcus pneumoniae</i> , <i>Legionella pneumophila</i> , <i>Mycoplasma pneumoniae</i> , <i>Chlamydomphila pneumoniae</i> , <i>Haemophilus influenzae</i> , <i>Bordetella pertussis</i>	BS-SY-MX24L

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Sample Type	Test Target	Catalog No
Tuberculosis BAL Sputum	Bacteria: <i>Mycobacterium tuberculosis</i> complex	BS-MTB-L
	Bacteria: <i>Mycobacterium tuberculosis</i> complex (MTB), <i>Mycobacterium avium</i> complex, <i>Mycobacterium</i> spp.	BS-MTBNTM-L
	Drug Resistance: Rifampicin, Isoniazid	BS-MTBMDR-L
	Drug Resistance: Ethionamide, Fluoroquinolones, Amikacin, Kanamycin, Capreomycin	BS-TBXDR-L

Sample Type	Test Target	Catalog No
Central Nervous System Infections CSF	Virus: Herpes Simplex Virus-1, Herpes Simplex Virus-2, Human Herpesvirus 6, Human Herpesvirus 7/8, Human Parechovirus, Cytomegalovirus, Enterovirus, Varicella-Zoster Virus Bacteria: <i>Streptococcus pneumoniae</i> , <i>Streptococcus agalactiae</i> , <i>Listeria monocytogenes</i> , <i>Neisseria meningitidis</i> , <i>Haemophilus influenzae</i> , <i>Escherichia coli</i> K1 Fungi: <i>Cryptococcus gattii/neoformans</i>	BS-CIDP-1
	Virus: Herpes Simplex Virus-1, Herpes Simplex Virus-2, Human Herpesvirus 6, Human Herpesvirus 7, Human Herpesvirus 8, Human Parechovirus, Cytomegalovirus, Enterovirus, Varicella-Zoster Virus Bacteria: <i>Streptococcus pneumoniae</i> , <i>Streptococcus agalactiae</i> , <i>Listeria monocytogenes</i> , <i>Neisseria meningitidis</i> , <i>Haemophilus influenzae</i> , <i>Escherichia coli</i> K1 Fungi: <i>Cryptococcus gattii/neoformans</i>	BS-ME-MX17L

ORDERING INFORMATIONS



Sample Type	Test Target	Catalog No
Gastrointestinal System Infections Rectal Swab Stool	Virus: Sapovirus (GI/GII/GIV/GV), Adenovirus, Astrovirus, Norovirus (GI/GII), Rotavirus (A) Gram - Positive Bacteria: <i>Clostridium difficile</i> toxin A, <i>Clostridium difficile</i> toxin B, <i>Clostridium difficile</i> Binary toxin A/B Gram - Negative Bacteria: <i>Plesiomonas shigelloides</i> , <i>Salmonella</i> spp., <i>Campylobacter</i> spp., <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> , <i>Vibrio vulnificus</i> , <i>Shigella/Enteroinvasive E. coli</i> (EIEC), <i>Enteroaggregative E. coli</i> (EAEC), <i>Shiga-toxin producing E. coli</i> (STEC), <i>Enteropathogenic E. coli</i> (EPEC), <i>Enterotoxigenic E. coli</i> (ETEC), <i>Yersinia enterocolitica</i> Parasite: <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp., <i>Cyclospora cayetanensis</i>	BS-GE-MX24L
	Virus: Sapovirus (GI/GII/GIV/GV), Adenovirus Type F, Astrovirus, Norovirus (GI/GII), Rotavirus (A)	BS-GE-MX5L
	Parasite: <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp., <i>Dientamoeba fragilis</i> , <i>Blastocystis Hominis</i> , <i>Cyclospora cayetanensis</i>	BS-GE-MX6L
	Virus: Adenovirus Type F, Norovirus (GI/GII), Rotavirus (A)	BS-GIDK-3
	Parasite: <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp.	BS-GIDK-4
	Bacteria: <i>Clostridium difficile</i> toxin A, <i>Clostridium difficile</i> toxin B, <i>Clostridium difficile</i> Binary toxin A/B	BS-GIDK-5
	Bacteria: <i>Helicobacter pylori</i> Resistance: Clarithromycin	BS-HP

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Sample Type	Test Target	Catalog No
Sepsis Whole Blood Positive Blood Culture	<p>Gram - Positive Bacteria: <i>Staphylococcus aureus</i>, <i>Staphylococcus</i> spp., <i>Enterococcus faecium</i>, <i>Enterococcus faecalis</i>, <i>Streptococcus pneumoniae</i>, <i>Streptococcus</i> spp., <i>Listeria monocytogenes</i></p> <p>Gram - Negative Bacteria: <i>Pseudomonas aeruginosa</i>, <i>Klebsiella pneumoniae</i>, <i>Acinetobacter baumannii</i>, <i>Haemophilus influenzae</i>, <i>Klebsiella oxytoca</i>, <i>Pseudomonas</i> spp., <i>Enterobacteriaceae</i>, <i>Stenotrophomonas maltophilia</i>, <i>Escherichia coli</i>, <i>Neisseria meningitidis</i></p> <p>Fungi: <i>Candida glabrata</i>, <i>Candida tropicalis</i>, <i>Candida krusei</i>, <i>Candida albicans</i>, <i>Candida parapsilosis</i></p> <p>Vancomycin resistance: VanA, VanB</p> <p>Carbapenem resistance: OXA 48, KPC, NDM, VIM, IMP</p> <p>Methicillin resistance: mecA+C</p>	BS-SE-MX30L
	<p>Gram - Positive Bacteria: <i>Staphylococcus aureus</i>, <i>Staphylococcus</i> spp., <i>Enterococcus faecium</i>, <i>Enterococcus faecalis</i>, <i>Streptococcus pneumoniae</i>, <i>Streptococcus</i> spp., <i>Listeria monocytogenes</i></p> <p>Gram - Negative Bacteria: <i>Pseudomonas aeruginosa</i>, <i>Klebsiella pneumoniae</i>, <i>Acinetobacter baumannii</i>, <i>Haemophilus influenzae</i>, <i>Klebsiella oxytoca</i>, <i>Pseudomonas</i> spp., <i>Enterobacteriaceae</i>, <i>Stenotrophomonas maltophilia</i>, <i>Escherichia coli</i>, <i>Neisseria meningitidis</i></p> <p>Fungi: <i>Candida</i> spp.</p> <p>Vancomycin resistance: VanA, VanB</p> <p>Carbapenem resistance: OXA 48, KPC, NDM, VIM, IMP</p> <p>ESBL: CTX-M</p> <p>Methicillin resistance: mecA+C</p>	BS-SIDP-1
	<p>Fungi: <i>Candida parapsilosis</i>, <i>Candida krusei</i>, <i>Candida glabrata</i>, <i>Candida albicans</i>, <i>Candida tropicalis</i>, <i>Candida auris</i></p>	BS-CD-L

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Sample Type	Test Target	Catalog No
<p>Sexually Transmitted Infections Throat, Vaginal, Urethral, Urogenital, Endocervical Swab Urine</p> <p>POC-qPCR Swab Samples in vNAT® Transfer Tube</p>	<p>Virus: Herpes Simplex Virus-1, Herpes Simplex Virus-2 Gram - Positive Bacteria: <i>Streptococcus agalactiae</i>, <i>Gardnerella vaginalis</i>, <i>Ureaplasma parvum/urealyticum</i> Gram - Negative Bacteria: <i>Mycoplasma genitalium</i>, <i>Mycoplasma hominis</i>, <i>Chlamydia trachomatis</i>, <i>Haemophilus ducreyi</i>, <i>Neisseria gonorrhoeae</i>, <i>Treponema pallidum</i> Parasite: <i>Trichomonas vaginalis</i></p>	BS-STI-L

Sample Type	Test Target	Catalog No
<p>HPV Cervical, Vaginal, Penile Swab</p> <p>POC-qPCR Swab Samples in vNAT® Transfer Tube</p>	<p>High Risk: HPV 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68 Low Risk: HPV 6, 11, 26, 40, 42, 43, 44, 53, 54, 61, 69, 70, 73, 82</p>	BS-GHPV-L
	<p>High Risk: HPV 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68</p>	BS-HRHPV-L
	<p>Low Risk: HPV 6, 11, 26, 40, 42, 43, 44, 53, 54, 61, 69, 70, 73, 82</p>	BS-LMHPV-L
	<p>High Risk: 16/18/31/33/35/39/45/51/52/56/58/59/66/68 Low-Medium Risk: 6/11/26/40/42/43/44/53/54/61/69/70/73/82</p>	BS-4THPV Mic
	<p>High Risk: 16, 18, 45, 33/51/59, 35/52, 39/56/68, 31/58/66</p>	BS-HPV Mic

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Sample Type	Test Target	Catalog No
Antibacterial Resistance Whole Blood CSF Sputum BAL Urine Synovial Fluid Bone Tissue Peri-Prosthetic Fluid	Beta-lactams: <i>KPC, NDM, VIM, IMP, OXA48, CTX-M</i> Methicillin: <i>mecA, mecC</i> Vancomycin: <i>vanA, vanB</i> Aminoglycosides: <i>aadA, aadB, APH(3')-Ia, AAC(3)-IV, armA</i> Macrolides: <i>mef, Erm</i> Fluoroquinolones: <i>parC, gyrA, Qnr</i> Colistin: <i>mcr</i> Sulfonamide: <i>sul</i> Trimethoprim: <i>dfrA</i>	BS-ABR-L
	Beta Lactams: <i>KPC, NDM, VIM, IMP, OXA48, CTX-M</i> Methicillin: <i>mecA+mecC</i> Vancomycin: <i>VanA, VanB</i> Fluoroquinolone: <i>Qnr</i> Trimethoprim: <i>dfrA</i> Sulfonamide: <i>Sul</i>	BS-UTABR-L

Sample Type	Test Target	Catalog No
Immunocompromised Quantitative Whole Blood Plasma CSF Urine	Virus: Epstein-Barr Virus	BS-Q-EBV
	Virus: Adenovirus	BS-Q-ADV
	Virus: BK Virus	BS-Q-BKV
	Virus: JC Virus	BS-Q-JCV
Immunocompromised Qualitative Whole Blood CSF Serum BAL	Bacteria: <i>Pneumocystis jirovecii</i>	BS-PJ-T
	Bacteria: <i>Aspergillus</i> spp.	BS-AS
	Virus: Varicella-Zoster Virus	BS-VZV
	Virus: Herpes Simplex Virus-1, Herpes Simplex Virus-2	BS-HSV
	Virus: Human Herpes Virus-6, Human Herpes Virus-7	BS-HHV
	Virus: Human Herpes Virus-8	BS-HHV8
Virus: Human Parvovirus B19 Virus	BS-B19V	

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Sample Type	Test Target	Catalog No
Eye Infections Aqueous/Vitreous Fluid Eye Swab POC-qPCR Swab Samples in vNAT® Transfer Tube	Virus: Herpes Simplex Virus 1, Herpes Simplex Virus 2, Adenovirus, Varicella-Zoster Virus, Cytomegalovirus, Epstein-Barr Virus Bacteria: <i>Chlamydia trachomatis</i> Fungi: <i>Candida</i> spp. Parasite: <i>Toxoplasma gondii</i> Protozoa: <i>Acanthamoeba</i> spp.	BS-EI

Sample Type	Test Target	Catalog No
Bone&Joint Infections Synovial Fluid Bone Tissue Peri-Prosthetic Fluid	Gram - Positive Bacteria: <i>Staphylococcus aureus</i> , <i>Staphylococcus lugdunensis</i> , <i>Streptococcus</i> spp., <i>Anaerococcus prevotii/vaginalis</i> , <i>Clostridium perfringens</i> , <i>Cutibacterium avidum/granulosum</i> , <i>Enterococcus faecalis</i> , <i>Enterococcus faecium</i> , <i>Fingoldia magna</i> , <i>Parvimonas micra</i> , <i>Peptoniphilus</i> spp., <i>Peptostreptococcus anaerobius</i> Gram - Negative Bacteria: <i>Bacteroides fragilis</i> , <i>Citrobacter</i> spp., <i>Enterobacter cloacae</i> complex, <i>Escherichia coli</i> , <i>Haemophilus influenzae</i> , <i>Kingella kingae</i> , <i>Klebsiella aerogenes</i> , <i>Klebsiella pneumoniae</i> , <i>Morganella morganii</i> , <i>Neisseria gonorrhoeae</i> , <i>Proteus</i> spp., <i>Pseudomonas aeruginosa</i> , <i>Salmonella</i> spp., <i>Serratia marcescens</i> Fungi: <i>Candida</i> spp., <i>Candida auris</i> , <i>Candida glabrata</i> , <i>Candida tropicalis</i> , <i>Candida krusei</i> , <i>Candida albicans</i> , <i>Candida parapsilosis</i>	BS-BJ-L

Sample Type	Test Target	Catalog No
Urinary Tract Infections Urine	Gram - Positive Bacteria: <i>Staphylococcus aureus</i> , <i>Staphylococcus saprophyticus</i> , <i>Aerococcus urinae</i> , <i>Enterococcus faecium</i> , <i>Streptococcus agalactiae</i> , <i>Enterococcus faecalis</i> , <i>Corynebacterium urealyticum</i> Gram - Negative Bacteria: <i>Acinetobacter baumannii</i> , <i>Klebsiella pneumoniae</i> , <i>Morganella morganii</i> , <i>Pseudomonas aeruginosa</i> , <i>Providencia stuartii</i> , <i>Ureaplasma urealyticum</i> , <i>Ureaplasma parvum</i> , <i>Proteus vulgaris</i> , <i>Proteus mirabilis</i> , <i>Escherichia coli</i> , <i>Serratia marcescens</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella aerogenes</i> , <i>Enterobacter cloacae</i> , <i>Citrobacter freundii</i> , <i>Treponema pallidum</i> Fungi: <i>Candida parapsilosis</i> , <i>Candida albicans</i> , <i>Candida glabrata</i> , <i>Candida tropicalis</i> , <i>Candida krusei</i> , <i>Candida auris</i>	BS-UTI-L



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