

About Barbiotech:

"Barbiotech Biotechnology Energy Defense Inc. was founded in 2022 at Ankara Ostim Technopark to conduct R&D studies in the fields of Molecular Genetics, Microbiology, and Nanotechnology.

Barbiotech is comprised of a highly qualified academic staff with 15 years of experience, specializing in the biotechnology sector, particularly focusing on nucleic acid extraction kits and Real-Time PCR kits.

All products manufactured by Barbiotech are produced in clean room facilities (ISO class 5 certified by TRKAK, No: 17020) and have been registered with the Turkish Ministry of Health in accordance with the In Vitro Diagnostic Medical Device Regulation (IVDR-CE).

Barbiotech has developed a unique sorbent technology based on innovative magnetic beads with a wide range of applications, including the purification, concentration, and clean-up of DNA, RNA, miRNA, GMO, as well as proteins from various sample types (Human, Plant, Animal, Soil, Food, and etc.). The intelligent purification of these macromolecules often serves as the initial step in diagnostics and numerous molecular biological applications, driving advancements in genomics and disease detection.

In addition, we continue to improve our quality and management system in accordance with the international TS EN ISO/IEC 17020 standard. Our company holds ISO 9001:2015, ISO 13485:2016, ISO 14001:2015, ISO 27001:2022, ISO 14971:2019, ISO 15223-2:2010, ISO 18385:2016, ISO 10002:2018, and ISO 45001:2018 certifications, and we fully comply with the practices of quality management systems.

Moreover, Barbiotech boasts extensive experience in OEM and contract manufacturing for the molecular biology and diagnostics sectors. This encompasses tailored production of complete purification/isolation kits, sample collection and preservation devices, as well as molecular biology reagents like buffers and RNA/DNA standards. Our contract manufacturing services are highly customizable to meet the unique requirements of each client. Our commitment rests in delivering top-notch products and services marked by exceptional quality, swift delivery times, and a team of highly skilled professionals who provide personalized and unparalleled support.

List of Isolation Kits:

Product	Size (preps)
Human DNA	
MagBAR® Genomic DNA Isolation Kit	50
MagBAR® Cultured Cell&Tissue DNA Isolation Kit	50
MagBAR® FFPE DNA Isolation Kit	50
SpinBAR® Genomic DNA Isolation Kit	50
Human RNA	
MagBAR® Viral RNA Isolation Kit	50
MagBAR® Blood RNA Isolation Kit	50
MagBAR® Cultured Cell &Tissue RNA Isolation Kit	50
Plant RNA&DNA	
MagBAR® Plant RNA Isolation Kit	50
MagBAR® Plant DNA Isolation Kit	50
SpinBAR® Plant RNA Isolation Kit	50
Animal RNA&DNA	
MagBAR® Animal Genomic DNA Isolation Kit	50
MagBAR® Animal Viral RNA Isolation Kit	50
SpinBAR® Animal Genomic DNA Isolation Kit	50

MagBAR® Genomic DNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput DNA purification from whole blood, cervical samples, plasma, serum, buffy coat, and swabs
- ✓ Efficiently isolate inhibitor-free total genomic DNA
- ✓ Purified DNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	200 µL
Time to Complete 12 Extractions	35 minutes
Elution Volume	60-100 µL
DNA Yield*	> 3-10 µg
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR® Cultured Cell&Tissue DNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput DNA purification from cultured cell and tissue samples
- ✓ Efficiently isolate inhibitor-free total genomic DNA
- ✓ Purified DNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	Cultured cells: 1-3×10 ⁶ cells Tissues: 10-20 mg
Time to Complete 12 Extractions	85 minutes
Elution Volume	60-100 µL
DNA Yield	> 10-40 µg
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR® FFPE DNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput DNA purification from FFPE samples
- ✓ Fast and easy processing without using xylene, phenol, and chloroform
- ✓ Efficiently isolate inhibitor-free total genomic DNA
- ✓ Purified DNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	3-4 FFPE sample sections between 5-10 µm
Time to Complete 12 Extractions	150 minutes
Elution Volume	60-100 µL
DNA Yield	> 15-45 µg
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR® Viral RNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput RNA purification from saliva, swab samples in VTM, serum and plasma samples
- ✓ Fast and easy processing
- ✓ Efficiently isolate inhibitor-free total RNA
- ✓ Purified RNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	200 µL
Time to Complete 12 Extractions	Saliva and Swabs: 20 minutes Serum and Plasma: 45 minutes
Elution Volume	50 µL
RNA Yield	> 2-6 µg
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR® Blood RNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput RNA purification from whole blood samples
- ✓ Fast and easy processing
- ✓ Efficiently isolate inhibitor-free total RNA
- ✓ Purified RNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	200 µL
Time to Complete 12 Extractions	35 minutes
Elution Volume	50 µL
RNA Yield	> 3-6 µg
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR® Cultured Cell&Tissue RNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput total RNA purification from cultured cell and tissue samples
- ✓ Efficiently isolate inhibitor-free total RNA
- ✓ Fast and easy processing
- ✓ Purified RNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	Cultured cells: 1-3×10 ⁶ cells Tissues: 10-20 mg
Time to Complete 12 Extractions	35 minutes
Elution Volume	50-100 µL
RNA Yield	> 6-10 µg
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR® Plant RNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput total RNA purification from different plant samples
- ✓ Efficiently isolate inhibitor-free total RNA
- ✓ Fast and easy processing
- ✓ Purified RNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	60 mg
Time to Complete 12 Extractions	35 minutes
Elution Volume	60-100 μ L
RNA Yield	> 10-25 μ g
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR® Plant DNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput total DNA purification from different plant samples
- ✓ Efficiently isolate inhibitor-free DNA
- ✓ Fast and easy processing
- ✓ Purified DNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	60 mg
Time to Complete 12 Extractions	35 minutes
Elution Volume	60-100 µL
DNA Yield	> 10-20 µg
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR® Animal Genomic DNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput DNA purification from whole blood, cervical samples, plasma, serum, buffy coat, and swabs
- ✓ Efficiently isolate inhibitor-free total genomic DNA
- ✓ Purified DNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	200 µL
Time to Complete 12 Extractions	35 minutes
Elution Volume	60-100 µL
DNA Yield*	> 3-10 µg
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.

MagBAR[®] Animal Viral RNA Isolation Kit (50 preps.)



Overview

- ✓ High-throughput RNA purification from saliva and swab samples in VTM
- ✓ Fast and easy processing
- ✓ Efficiently isolate inhibitor-free total RNA
- ✓ Purified RNA is of the highest quality for sensitive downstream applications (PCR, qPCR, genotyping and sequencing)

Kit Specifications

Technology	Magnetic hybrid particles
Max Input	200 μ L
Time to Complete 12 Extractions	20 minutes
Elution Volume	50 μ L
RNA Yield	> 2-6 μ g
Format	Manuel
Life Time	24 months

* Yield will vary depending on the type of sample processed.