

Manual DNA/RNA extraction using magnetic beads technology

Magnetic beads are a simple and reliable method of purifying genomic, plasmid and mitochondrial DNA. Under optimized conditions, DNA selectively binds to the surface of magnetic beads, while other contaminants stay in solution. Equipment necessary for this technology includes the bead purification kits, magnetic separators (stands, racks, automated systems), thermoblocks, centrifuges, pipettes, vortexes, tubes, columns, and flasks. Below you can find all the necessary devices for this easy but powerful method. With Biosan devices - confidence without compromises!

1

Reagent re-suspension and primary tube centrifugation



● MICROSPIN
12
High-speed Mini-
centrifuge



● LMC-3000
Laboratory
Centrifuge



● LMC-56
Laboratory
Centrifuge



● LMC-4200R
Laboratory
Refrigerated
Centrifuge

New

2

Sample lysis for release of Nucleic Acid



● TDB-120
Dry block
thermostat



● TS-100C
Thermo-Shaker
with cooling for
microtubes and
PCR plates



● TS-100C
SMART
Thermo-Shaker
with cooling for
microtubes and
PCR plates

3

Magnetic particle binding to nucleic acid and separation from solution (Magnetic separation)



● TDB-120
Dry block
thermostat



MAGSORB-
16
Magnetic Rack for
Manual Nucleic Acid
Extraction

4

Wash to remove cell debris and contamination



ASSIST
pipette series



ASSIST
pipette series with
volume lock



FTA-2I
Aspirator with Trap
Flask

5

Separation of Nucleic acid and Magnetic particles (Elution)



MICROSPIN
12
High-speed Mini-
centrifuge



TDB-120
Dry block
thermostat



TS-100C
Thermo-Shaker
with cooling for
microtubes and
PCR plates



TS-100C
SMART
Thermo-Shaker
with cooling for
microtubes and
PCR plates

6

Recommended products for Magnetic based extraction



UVT-S-AR
DNA/RNA UV-
cleaner box



LABAQUA
BIO
ultrapure water
system



FVL-2400N
Mini-
centrifuge/Vortex
Combi-Spin



TS-100
Thermo-Shaker for
microtubes and
PCR plates



MSV-3500
Multi Speed Vortex



CH 3-150
Heating and cooling
thermostat



ASSIST
pipette series



ASSIST
pipette series with
volume lock



FTA-1
Aspirator with trap
flask



MPS-1
High-Speed Multi
Plate Shaker



PDS-250
DNA/RNA
Decontamination
Solution



PDS-10L
DNA/RNA
Decontamination
Solution 10l