

OxMag® NGS Solution

NGS Cleanup
DNA Cleanup / PCR Purification

Instructions For Use



Instructions For Use
Version 1. MAG-005



MAG-005

MAG_005/05 – OxMag® NGS Solution – 5 ml

MAG_005/60 – OxMag® NGS Solution – 60 ml

MAG_005/450 – OxMag® NGS Solution – 450 ml



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Description of the Kit Components, Transportation and Storage

Table 1. Content of the Kit

OxMag® NGS Solution		5 ml	60 ml	450 ml	Transportation and Storage
OxMag® NGS	Purification Buffer	5 ml	60 ml	450 ml	2-8 °C
Solution E	Elution Buffer	25 ml	100 ml x 3	1125 ml x 2	Room temperature

The List of Materials to be Supplied by the User

Table 2. Equipment and Reagents to be Supplied by the User

Equipment	Consumables
Thermoblock	Ethanol ≥95%
Vortex and HulaMixer	RNase-free 1.5 ml microcentrifuge tubes
Pipette 0.5 - 10 µl	RNase-free 2 ml microcentrifuge tubes
Pipette 10 - 100 µl	10 – 100 µl pipette tips with filter
Pipette 100 - 1000 µl	10 – 100 µl pipette tips with filter
Magnetic rack <i>for manual cleanup</i>	100 - 1000 µl pipette tips with filter
Tecan or other liquid handlers <i>for automated cleanup</i>	Automation platform-compatible plastics <i>for automated purifications</i>

Instructions for Manual Purifications

IMPORTANT: Before starting experiments, vortex the OxMag® NGS Solution to make sure it is homogeneous and has an even distribution of magnetic particles. **Do not freeze OxMag® NGS Solution, store at 2-8 °C. The following steps can be performed with any robotic liquid handler.**

OxMag® NGS Solution Protocol

1. Transfer the sample into a tube or plate well and add 2x volume of OxMag® NGS Solution. Mix by flicking the tube or using a HulaMixer. *For example, if the sample volume is 25 µl, add 50 µl of OxMag® NGS Solution.*
2. Incubate the sample for 10 min. on a HulaMixer at room temperature (RT) with gentle shaking.
3. Place the microfuge tube on the magnetic separation rack for 3 min.
Note: Wait for the solution to become transparent/clear before proceeding to the next step.
4. Keep the microfuge tube on the magnetic separation rack and remove the solution by pipetting without disturbing the pellet/ring of separated magnetic beads.
5. Add 200 µl of freshly prepared 70% ethanol and pipette without disturbing the pellet/ring of separated magnetic beads.
Note: If the total volume of sample plus reagent exceeds 200 µl, then use at least the volume of sample and buffer together to wash the beads.
6. Keep the microfuge tube on the magnetic separation rack for 1 min. and remove the solution by pipetting without disturbing OxMag® NGS Solution. Before starting experiments, vortex the OxMag® NGS Solution to make sure it is homogeneous and has an even distribution of magnetic particles. Do not freeze OxMag® NGS Solution, store at 2-8 °C. the pellet/ring of beads.
7. Repeat the wash step one more time (steps 5-6). Spin down to remove drops from inside the lid.
8. Place the microfuge tube on the magnetic separation rack, carefully drain off ethanol, and leave it to air-dry for 30 s.
Note: Different drying times should be optimized considering the difference in sample size and pellet. If needed, let it dry a little longer, but caution must be taken not to over-dry the pellet. Bead pellets appear cracked if over-dried, significantly decreasing elution efficiency for fragments 10 kb and larger.
9. Add preheated (56°C) elution to the magnetic beads and mix by flicking the tube. If necessary, mix by pipetting. The optimal minimum volume of elution is the volume of the starting material. However, if you wish to increase concentration, the elution volume can be as small as 0.6x of the starting material. Note that this may compromise the yield of the eluted DNA. *For example, if the starting material volume is 25 µl, add 15 µl elution buffer.*
10. Incubate at RT for 5 min.
11. Place the microfuge tube on the magnetic separation rack for 1 min. and transfer the eluate to a new microfuge tube.

Disposal

Dispose of used kit reagents, human clinical samples, and sealed amplification plates as laboratory clinical waste according to local, state, and federal regulations.

Version History

Instruction for Use Version MAG-005.03.24 EN V1, March 24, 2024.

Quality Control System

Quality management system TÜV SÜD-ISO 9001:2015. Each Viral RNA/DNA Purification Kit batch is tested against predetermined quality specifications to ensure consistent product quality.

Technical support

For technical support, please contact our dedicated Technical Support Team at:
TEL: +995 599 374 374, Email: support@oxgensolutions.com

Explanation of Symbols

LOT Batch code

 Use by

REF Catalogue number

 Store at

QTY Quantity

 Manufactured by