

NucleoMag[®] Tissue

Automated purification of genomic DNA from tissue or cells on the TANBead Maelstrom 4800



Introduction

Rapid and reliable isolation of genomic DNA from tissue samples and cells is crucial for many applications in molecular biology ranging from genotyping to clinical research.

MACHEREY-NAGEL's NucleoMag[®] Tissue allows purification of pure and high quality DNA. Isolated DNA can directly be used as template for PCR, NGS, blotting, or enzymatic reactions.

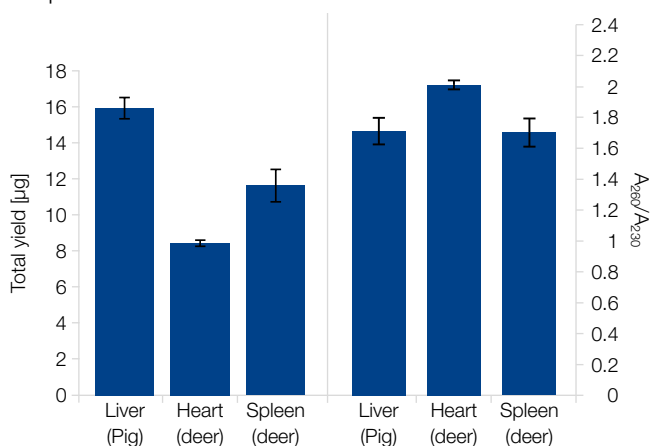
Here we demonstrate the reliable performance of our NucleoMag[®] Tissue on the TANBead Maelstrom 4800. Processing of NucleoMag[®] Tissue on the Maelstrom 4800 allows extraction of high yields of high quality DNA from various samples.

NucleoMag[®] Tissue

Sample material	< 20 mg tissue; < 10 ⁶ cells; bacterial pellets
Elution volume	50–200 µL
Fragment size	300 bp–approx. 50 kbp
Preparation time	approx. 34 min

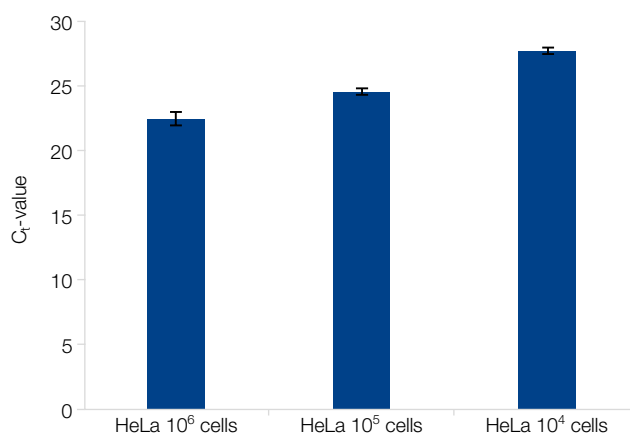
TANBead Maelstrom 4800

Description	Automated nucleic acid extraction instrument
Technology	Magnetic rods; mixing by whirl stirring
Capacity	Up to 48 samples/run
Footprint	58.0 x 47.0 x 43.0 cm



Isolation of genomic DNA from tissue samples

DNA was isolated from various tissue samples (10 mg) using the NucleoMag[®] Tissue kit on the Maelstrom 4800. The total yield was determined by. Purity was determined by UV spectrometry



Isolation of genomic DNA from HeLa cells

DNA was isolated from different amounts of HeLa cells using the NucleoMag[®] Tissue kit on the Maelstrom 4800 platform. A subsequent qPCR analysis was performed using a β-Actin amplicon. The qPCR results demonstrate a reliable detection of gDNA, even for low amounts of cells.

NucleoMag[®] Tissue

Technology: Magnetic beads

Your advantages at a glance

- Reliable performance and high yields from various sample materials
- Convenient and fast nucleic acid purification on the Maelstrom 4800
- Highly pure nucleic acids - superior downstream performance

For more information, please contact MACHEREY-NAGEL Bioanalysis technical support: bio-tech@mn-net.com

Product	Specifications	Pack of	REF
NucleoMag [®] Tissue	Kit based on magnetic bead technology for the isolation of genomic DNA from tissue samples	1 x 96	744300.1
		4 x 96	744300.4
		24 x 96	744300.24