

NucleoMag[®] DNA Food

Automated DNA purification of food and feed samples on the Maelstrom 4800

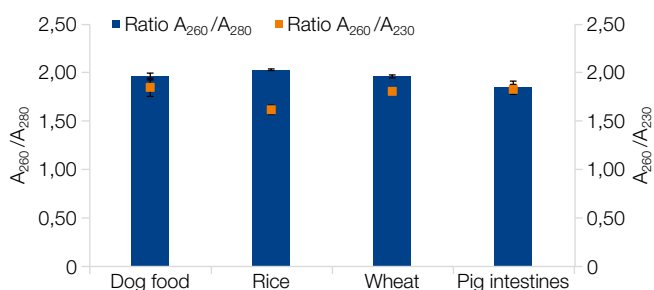
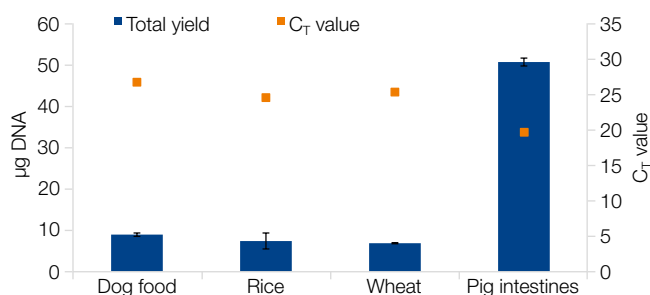


Introduction

DNA based food and feed testing is essential to ensure food safety, quality, regulatory compliance and accurate labeling. Food samples are very heterogeneous and contain many different components, like lipids, polysaccharides and high content of proteins, which are released during DNA extraction. Our NucleoMag[®] DNA Food kit is ideal for reliable isolation of DNA from complex matrices such as processed food or feed

samples due to its optimized buffer chemistry and excellent inhibitor removal.

Here we demonstrate that our NucleoMag[®] DNA Food kit, automated on the TANBead Maelstrom 4800 is capable of extracting DNA from complex food matrices with high yields and devoid of PCR inhibitors.



Extraction of DNA from various food and feed samples on the Maelstrom 4800

Average yield from 200 mg per sample (28 mg for pig intestines) of samples extracted on the Maelstrom 4800. DNA was eluted in 100 µL. A subsequent qPCR analysis was performed using an Actin amplicon to demonstrate the suitability for typical downstream analysis

DNA extracted from various food samples on the Maelstrom 4800 is reliably pure

Consistent purity levels (in terms of A₂₆₀/A₂₈₀ and A₂₆₀/A₂₃₀) indicate high reliability of NucleoMag[®] DNA Food for purification of DNA on the Maelstrom 4800.

NucleoMag [®] DNA Food	
Technology	Magnetic beads
Sample material	≤ 200 mg feed, food
Typical yield	0.1–10 µg depending on sample quality
Elution volume	50–200 µL
Fragment size	300 bp–approx. 50 kbp
Preparation time	approx. 36 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

Product	Specifications	Pack	REF
NucleoMag [®] DNA Food	Kit based on magnetic bead technology for the isolation of genomic DNA from food and feed samples including NucleoMag [®] B-Beads, buffers, Liquid Proteinase K	96 preps	744945.1
		384 preps	744945.4

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