

magtivio
magnetic sample preparation

MagSi-DNA Animal

DNA Extraction from Animal Samples

MagSi-DNA Animal allows fast and cost-effective extraction of DNA from various samples like blood, semen, hairs, saliva/swabs or lysed tissue. This universal DNA purification kit is optimized to extract DNA from these sample materials with the highest purity and delivering DNA which is suitable for genotyping assays or other qPCR based analysis. The extraction chemistry is validated on different species, e.g. horse, swine, dog, cattle, fish and shrimp and can be customized to meet any specific requirements of yields, purity, working volumes. The kit can be used on KingFisher™ Flex or similar systems or on many other automated DNA purification instruments.

Features

- Short protocols, complete processing at room temperature possible (after sample lysis)
- High DNA yield and purity
- Suitable for many genomic applications such as SNP genotyping, DNA sequencing, NGS
- Suitable for parental testing / breeding identity
- Preparation time 96 samples: 20 min after lysis

Quality

- Validated procedures for many sample materials (e.g., blood, semen, saliva, swabs (saliva/oral fluid), hair, lysed tissue)
- High molecular weight and pure DNA suitable for long-time storage
- Efficient removal of PCR inhibitors

Easy to Automate

- Minimal accessory requirements
- KingFisher™ / Biosprint 96 protocols on request
- Consumables for KingFisher™ Flex 96 / MagMax EXPRESS 96 / Biosprint 96 available
- Compatible with liquid handling robots (e.g. Hamilton®, TECAN®, oKtopure™)
- Magnetic separators for microtubes and microplates available

Flexibility

- Suitable for processing various sample materials
- Suitable for small, medium and high-throughput automation | Small elution volumes

Sample	DNA concentration ¹ , ng/μL (Qubit)				
	Dog	Cat	Horse	Cattle	Swine
Blood, 20 μL	5.5	3.5	2.6	9.3	5
Semen, 30 μL	74	nt	170	26	11
Swab/Saliva ² , 100 μL	2.2	5.6	nt	nt	nt
Hair, 8 pcs	nt	nt	11.8	5.7	13.7
Tissue, 4 mm	nt	nt	nt	17.8	3.1

Figure 1. Results of typical DNA concentrations obtained from various sample materials. DNA purification was performed using a MagMax EXPRESS 96 magnetic bead processor

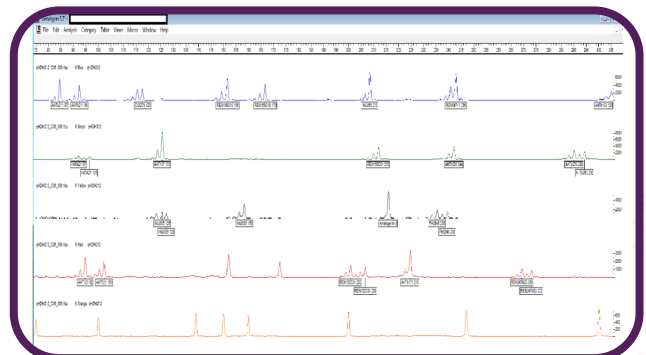


Figure 2. Example STR profile, DNA from 20 μL dog blood

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Art. No.	Description	Amount
MDKT00150096	MagSi-DNA Animal	96 preps
MDKT00150960	MagSi-DNA Animal	10x96 preps



Figure 3. Aquaculture of fish or crustaceans