

# AutoBAR® Nucleic Acid Extraction Kit

High-throughput Total Nucleic Acid purification from samples such as Blood, Serum, Plasma, Swab and Transport media



**30 Minute Extraction Time\***

\*For Blood and Serum samples



**Magnetic Particle Based**  
200 µL Sample



**High Yield and Quality DNA**

High quality DNA suitable for all molecular applications such as qPCR, PCR



**Automated Extraction**

Ready-to-use cartridges for Barbiotech Extraction Systems and ability to work with all open pipetting systems

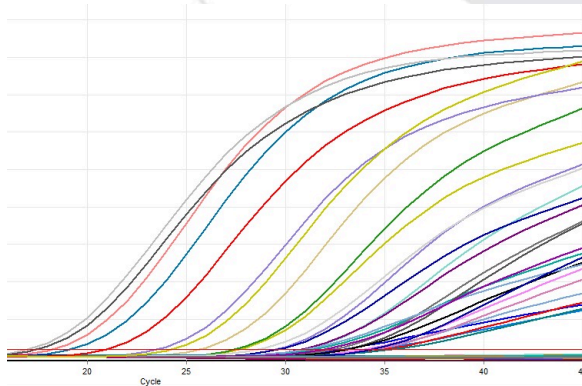
AutoBAR® Nucleic Acid Extraction Kit is designed for high-efficiency Viral and Genomic Total Nucleic Acid purification from samples such as blood, serum, plasma, swab and transport media. It provides high-efficiency Total Nucleic Acid isolation free from inhibitors with its special buffer solution formulation and unique magnetic bead technology. In this way, it guarantees the highest quality nucleic acid isolation for all studies such as Genomic DNA and Viral load analyses to be performed after purification.



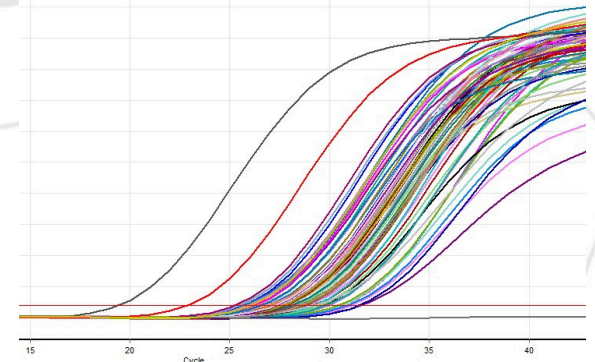
## Kit Specifications

Technology	Magnetic Hybrid Particles
Maximum Starting Material	200 µL
Time	30 minutes for Whole Blood
Elution Volume	60 µL
DNA Yield*	> 1-5 µg
Format	Automated
Shelf Life	12 Months

\* Yield may vary depending on the type of sample processed.



**Figure 1.** Quantitative HBV PCR study (FAM) performed with samples isolated with the AutoBAR® TNA Isolation Kit.



**Figure 2.** Quantitative HBV PCR study (Internal Control - Hex) performed with samples isolated with the AutoBAR® TNA Isolation Kit.

# AutoBAR® Genomic DNA Extraction Kit

High-throughput Genomic DNA Extraction from samples such as whole blood, cervical samples, plasma, serum, buffy-coat and swab samples



**40 Minute Extraction Time\***

\*For Whole Blood Samples



**Magnetic Particle Based**

150 - 250 µL starting sample



**High Yield and Quality DNA**

High quality DNA suitable for all molecular applications such as qPCR, NGS



**Automated Extraction**

Ready-to-use cartridges for Barbiotech Extraction Systems and ability to work with all open pipetting systems

AutoBAR® Genomic DNA Extraction Kit is designed for high-throughput DNA purification from whole blood, cervical samples, plasma, serum, buffy-coat and swab samples up to 250 µL. It provides high-throughput genomic DNA isolation free from inhibitors with its special buffer solution formulation and unique magnetic bead technology. In this way, it guarantees the highest quality DNA for all studies to be performed after purification (PCR, qPCR, genotyping and sequencing).

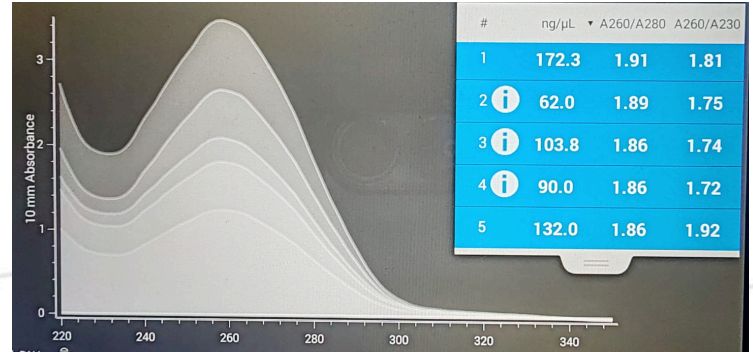


Figure 1. Nanodrop One results of whole blood samples from different patients isolated with the AutoBAR® Genomic DNA Extraction Kit.

## Kit Specifications

Technology	Magnetic Hybrid Particles
Maximum Starting Material	250 µL
Time	40 Minutes
Elution Volume	60-100 µL
DNA Yield*	> 3-10 µg
Format	Automated
Shelf Life	12 Months

\* Yield may vary depending on the type of sample processed.

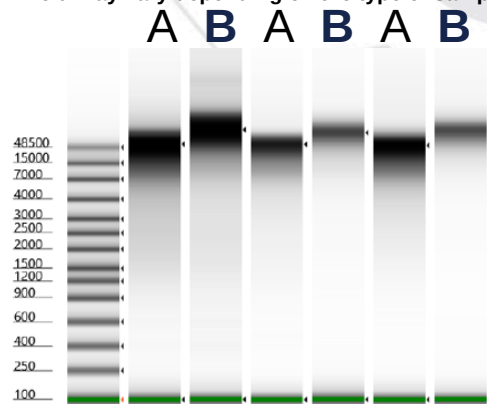


Figure 2. Agilent TapeStation Fragment analysis results of samples isolated with AutoBAR® Genomic DNA Extraction Kit and the isolation results of the competitor company (A: competitor company, B: Barbiotech). DIN >8.5

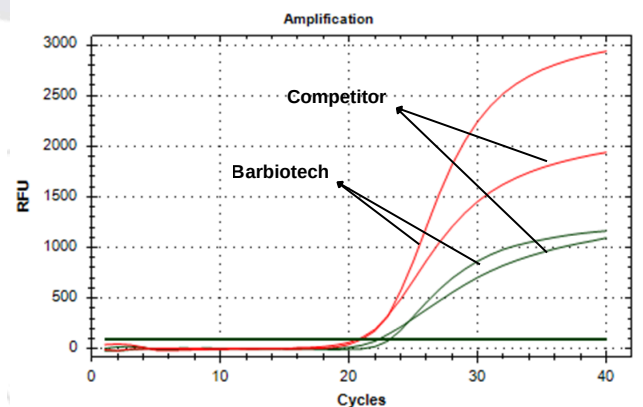


Figure 3. Comparison of the isolation results of samples isolated with the AutoBAR® Genomic DNA Extraction Kit and the competitor's SMN1 qPCR kit.

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# AutoBAR® FFPE DNA Extraction Kit

Rapid and high-yield DNA purification from FFPE samples without using chemicals such as xylene, phenol and chloroform



**150 Minutes Isolation Time\***

\*Total time including deparaffinization



**Magnetic Particle Based**

3-4 FFPE sections between 5-10 um



**High Yield and Quality DNA**

High quality DNA suitable for all molecular applications such as qPCR, NGS



**Automated Extraction**

Ready-to-use cartridges for Barbiotech Extraction Systems and ability to work with all open pipetting systems

AutoBAR® FFPE DNA Extraction Kit is designed for high-yield DNA purification from FFPE samples. With its special buffer solution formulation and unique magnetic bead technology, it provides high-yield DNA isolation free from inhibitors quickly and easily without using harmful chemicals such as xylene, phenol and chloroform. In this way, it guarantees the highest quality DNA for all studies to be performed after purification (PCR, qPCR, genotyping and sequencing).



## Kit Specifications

<b>Technology</b>	Magnetic Hybrid Particles
<b>Maximum Starting Material</b>	3-4 FFPE sections between 5-10 um
<b>Time</b>	150 Minutes
<b>Elution Volume</b>	60-100 µL
<b>DNA Yield*</b>	> 15-45 µg
<b>Format</b>	Automated
<b>Shelf Life</b>	12 Months

\* Yield may vary depending on the type of sample processed.

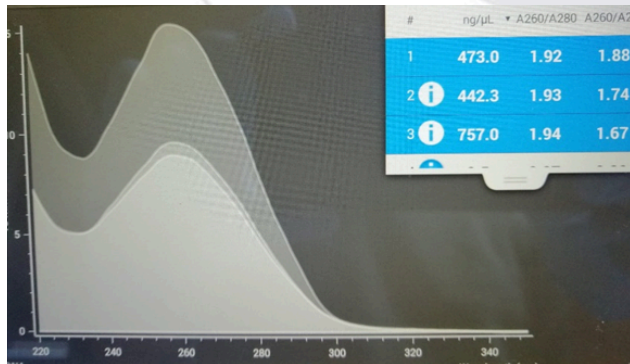


Figure 1. Nanodrop One results of different FFPE samples isolated with the AutoBAR® FFPE DNA Extraction Kit.

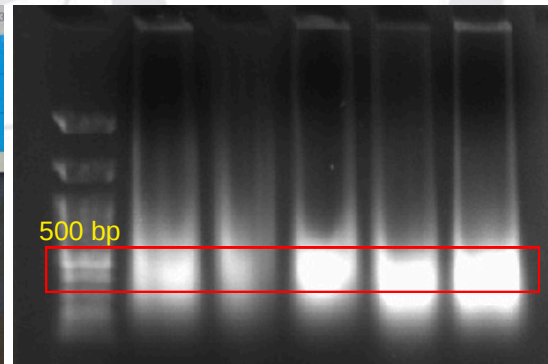


Figure 2. Agarose gel electrophoresis images of different samples isolated with the AutoBAR® FFPE DNA Extraction Kit (1% agarose gel).

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# AutoBAR® Cell&Tissue DNA Extraction Kit

High-Throughput DNA Purification from Cultured Cell and Tissue Samples



**40 Minute Extraction  
Time**



**Magnetic Particle  
Based**

1-3 Millions cell or  
10-20 mg Tissue



**High Yield and  
Quality DNA**

High quality DNA suitable for all  
molecular applications such as  
qPCR, NGS



**Automated  
Extraction**

Ready-to-use cartridges for  
Barbiotech Extraction Systems  
and ability to work with all open  
pipetting systems

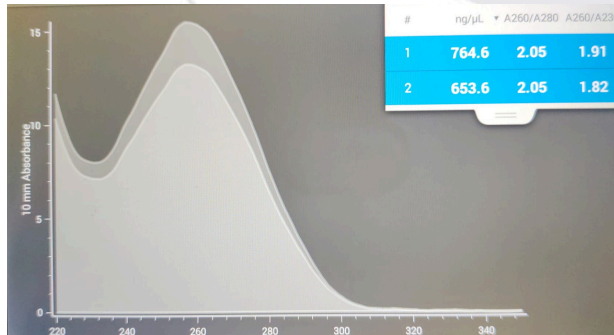
AutoBAR® Cell&Tissue DNA Extraction Kit is designed for high-efficiency DNA purification from cultured cells and tissue samples. It provides high-efficiency genomic DNA isolation free from inhibitors with its special buffer solution formulation and unique magnetic bead technology. In this way, it guarantees the highest quality DNA for all studies to be performed after purification (PCR, qPCR, genotyping and sequencing).



## Kit Specifications

<b>Technology</b>	Magnetic Hybrid Particles
<b>Maximum Starting Material</b>	Cultured Cell: 1-3 million cell Tissue: 10-20 mg
<b>Time</b>	85 minutes
<b>Elution Volume</b>	60-100 µL
<b>DNA Yield*</b>	> 5-20 µg
<b>Format</b>	Automated
<b>Shelf Life</b>	12 Months

\* Yield may vary depending on the type of sample processed.



**Figure 1.** Nanodrop One results of liver samples isolated with the AutoBAR® Cell&Tissue DNA Extraction Kit.

Sample	DNA Yield (ng/ul)	A260/280
1	363,1	1,96
2	254,2	1,96
3	407,2	2,01
4	369,9	2,00

**Table 1.** Measurement results of different tissue samples studied with the AutoBAR® Cell Tissue DNA Extraction Kit.

# AutoBAR® Cell&Tissue RNA Extraction Kit

High-Throughput DNA Purification from Cultured Cell and Tissue Samples



**35 Minute Extraction  
Time**



**Magnetic Particle  
Based**

1-3 Millions cell or  
10-20 mg Tissue



**High Yield and  
Quality RNA**

High quality RNA suitable for all  
molecular applications such as rt-  
qPCR, sequencing



**Automated  
Extraction**

Ready-to-use cartridges for  
Barbiotech Extraction Systems  
and ability to work with all open  
pipetting systems

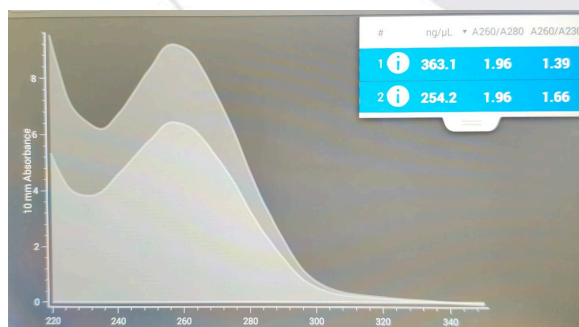
AutoBAR® Cell&Tissue RNA Extraction Kit is designed for high-efficiency RNA purification from cultured cells and tissue samples. It provides high-efficiency RNA isolation free from inhibitors with its special buffer solution formulation and unique magnetic bead technology. In this way, it guarantees the highest quality RNA for all studies to be performed after purification (rt-PCR, rt-qPCR, sequencing etc).



## Kit Specifications

<b>Technology</b>	Magnetic Hybrid Particles
<b>Maximum Starting Material</b>	Cultured Cell: 1-3 million cell Tissue: 10-20 mg
<b>Time</b>	35 Minutes for whole Blood
<b>Elution Volume</b>	60-100 µL
<b>RNA Yield*</b>	> 15-45 µg
<b>Format</b>	Automated
<b>Shelf Life</b>	12 Months

\* Yield may vary depending on the type of sample processed.



**Figure 1.** Nanodrop One results of liver samples isolated with the AutoBAR® Cell Tissue RNA Extraction Kit.

Sample	RNA Yield (ng/ul)	A260/280
1	413	1,89
2	374,8	1,96
3	389,1	2,03
4	267,3	1,95

**Table 1.** Measurement results of different tissue samples studied with the AutoBAR® Cell Tissue RNA Extraction Kit.

# AutoBAR® Forensic DNA Extraction Kit

High-throughput DNA purification for forensic science and crime scene samples



**35 Minute Extraction Time\***

\*For Whole Blood Samples



**Magnetic Particle Based**



**High Yield and Quality DNA**

High quality DNA suitable for all molecular applications such as qPCR, NGS



**Automated Extraction**

Ready-to-use cartridges for Barbiotech Extraction Systems and ability to work with all open pipetting systems

AutoBAR® Forensic DNA Extraction Kit is designed for high-efficiency DNA purification from all types of samples such as blood, dry blood, paper, swab, cigarette butt, fabric, hair, nail, ancient DNA, bone, tooth, aborted material, fetus, saliva, sperm. With its special formulation and unique technology, it provides high-efficiency DNA isolation even from degraded, moldy or very small amounts of samples. In this way, it guarantees the highest quality DNA for all studies to be performed after purification (PCR, qPCR, genotyping and sequencing).



## Kit Specifications

<b>Technology</b>	Magnetic Hybrid Particles
<b>Maximum Starting Material</b>	60-100 µL
<b>Time</b>	35 minutes for whole blood
<b>Elution Volume</b>	60-100 µL
<b>DNA Yield*</b>	> 15-45 µg
<b>Format</b>	Automated
<b>Shelf Life</b>	12 Months

\* Yield may vary depending on the type of sample processed.

Sample	DNA Yield (ng/ul)	A260/280
1	6,2	1,76
2	7,4	1,79
3	7,7	1,90
4	5,0	1,79
5	6,6	1,95

**Table 1.** Measurement results of different DBS samples isolated with the AutoBAR® Forensic DNA Extraction Kit

Sample	Human (ng/ul)	Male (ng/ul)
Saliva (Swab)	85,71	55,23
Hair (Rootless)	1,69	1,5
Fingernail	2,28	1,62
Tooth	24,12	16,11
Bone	55,29	28,92

**Table 2.** Human DNA Quantification kit (Qiagen) results of different samples isolated with the AutoBAR® Forensic DNA Extraction Kit.

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# AutoBAR® Food DNA Extraction Kit

High-throughput automated DNA purification from various food, feed and seed samples (including overly processed products such as chips, chocolate, milk powder, starch, baby formula)



**60 Minute Extraction Time\***

\*For processed foods



**Magnetic Particle Based**

200mg starting sample



**High Yield and Quality DNA**

High quality DNA suitable for all molecular applications such as qPCR, PCR



**Automated Extraction**

Ready-to-use cartridges for Barbiotech Extraction Systems and ability to work with all open pipetting systems

AutoBAR® Food DNA Extraction Kit has been developed for high-yield DNA purification from various processed or unprocessed plant and animal samples. With its special buffer solution formulation and innovative magnetic bead technology, it provides high-yield DNA isolation free from inhibitors for qualitative and quantitative applications such as species determination and GMO analysis after purification without the use of chemicals such as phenol or chloroform.



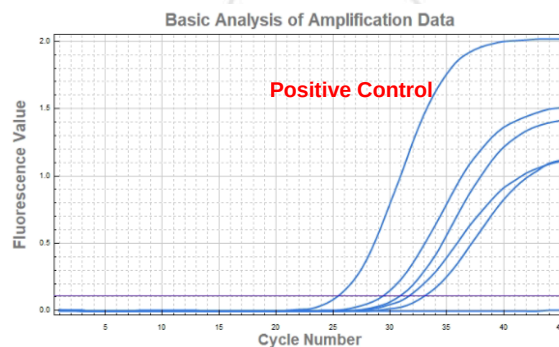
Sample	Yield (ng/ul)	Total Yield (ug)
Potato Chips	122	9,7
Chocolate	44	3,5
Baby Formula	300	24
Starch	16	1,2
Milk Powder	40	3,2
Meat	300	24
Barley	600	48
Soy	800	64
Maize	85	6,8
Cotton	700	56

**Table 1.** Yields of different samples extracted with the AutoBAR® Food DNA Isolation Kit.

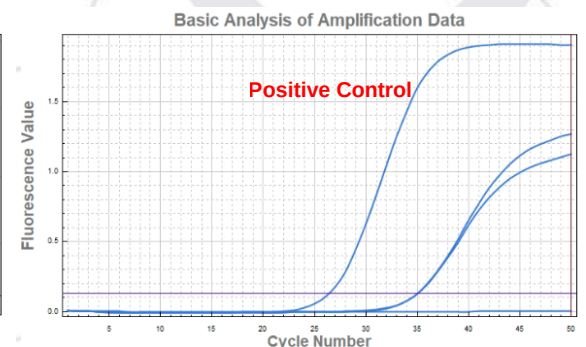
## Kit Specifications

<b>Technology</b>	Magnetic Hybrid Particles
<b>Maximum Starting Material</b>	≥ 200 mg
<b>Time</b>	60 Minutes
<b>Elution Volume</b>	100 µL
<b>DNA Yield*</b>	> 1-100 µg
<b>Format</b>	Automatic
<b>Shelf Life</b>	12 Months

\* Yield may vary depending on the type of sample processed.



**Figure 1.** GMO qPCR results of GMO positive Barley Flour samples isolated with the AutoBAR® Food DNA Isolation Kit.



**Figure 2.** GMO qPCR results of GMO positive Maize Starch samples isolated with the AutoBAR® Food DNA Isolation Kit.

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