

MGIEasy

FFPE DNA Extraction Prepacked Kit (MGISP-NE32)/ Nucleic Acid Extraction Kit (FDP-32)

This kit is designed for extracting high quality genomic DNA from FFPE sections, Paraffin-embedded blocks and Formalin fixed tissue with superparamagnetic beads technology. Compatible with MGISP-NE32 perfectly. The extracted product can be used for PCR, real time PCR and Sequencing.

- To the maximum retain the DNA integrity
- Non-toxic buffer, safe to human
- The main component prepacked into plate, easy to use



Product Information

Name	MGIEasy FFPE DNA Extraction Prepacked Kit (MGISP-NE32)/ Nucleic Acid Extraction Kit (FDP-32)
Certificate	RUO/CE-IVD
Specification	32 preps
Storage	2~8°C
Input	FFPE Section ≤ 8 pieces (10 μm, 0.5 cm * 0.5 cm) Paraffin embedded blocks ≤ 30 mg; Formalin fixed tissue ≤ 30 mg
Elution volume	100 μL
TAT	~165 mins (include the pretreatment)

Ordering Information

PN	Name	Model	Certificate	Sale Area
940-000113-00	MGIEasy FFPE DNA Extraction Prepacked Kit (MGISP-NE32)	FDP-32	RUO	Worldwide
940-000262-00	Nucleic Acid Extraction Kit	FDP-32	CEDoc	EUAF, Asia and other regions recognized CEDoc

Performance

● Sequencing compatibility

Extracting DNA from 5 FFPE section samples using the kit, followed by library preparation and sequencing. According to the result, the 5 samples' sequencing data quality and analysis result fulfill the requirement, which indicated the DNA extracted by our kit can compatible with sequencing very well.

Table1 QC result for extracted DNA

Sample ID	Sample type	DIN	Conc(ng/μL)	Main size(bp)	OD260/230	OD260/280
S1	Cervix	2.9	28.6	1,919	1.71	1.82
S2	Colorectal	4.5	84.8	2241	1.94	1.58
S3	Thyroid gland	2.6	42.4	731	1.86	1.78
S4	Mammary gland	2.2	10.2	574	1.69	1.74
S5	Standard	7.9	32.4	24,312	1.82	1.9

Table2 Sequencing quality and analysis result

Sample ID	Q30_raw	Mapping_Rate	Dup_Rate	Coverage (1X)	Coverage (5X)	Coverage (10X)	Coverage (30X)	Total_SNP	dbSNP_rate	Total_INDEL	dbINDEL_Rate
S1	0.9441	99.71%	5.95%	99.07%	98.79%	97.05%	93.15%	22897	99.30%	879	89.42%
S2	0.9425	99.72%	6.32%	99.24%	99.07%	98.69%	98.26%	23633	99.27%	891	86.08%
S3	0.949	99.67%	5.37%	99.06%	98.47%	98.14%	97.24%	23515	99.02%	912	83.99%
S4	0.9273	99.72%	6.65%	99.04%	98.85%	98.25%	97.45%	23524	99.02%	914	84.79%
S5	0.9277	99.74%	3.32%	99.09%	98.92%	98.68%	98.49%	23633	99.42%	921	91.42%

*All the library are sequenced by MGISEQ-2000RS platform

● Extracting efficiency

Extracting the DNA from different quantity FFPE sections using the kit, followed by quantification, the result indicated our kit can successfully extract the DNA from 2 sections the least.

Table3 QC result

Input	Conc (ng/μL)	Yield (ng)	Input	Conc (ng/μL)	Yield (ng)
2 sections	1.27	127	6 sections	16.30	1630
2 sections	1.57	157	6 sections	12.90	1290
2 sections	1.49	149	6 sections	17.80	1780
2 sections	1.79	179	6 sections	16.00	1600
4 sections	7.32	732	8 sections	17.10	1710
4 sections	5.63	563	8 sections	15.00	1500
4 sections	4.19	419	8 sections	18.00	1800
4 sections	4.68	468	8 sections	16.00	1600

