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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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EZ Nucleosomal DNA Prep Kit

Cat. No. D5220 (20 preps)



ZYMO RESEARCH

The Beauty of Science is to Make Things Simple

Storage: -20 °C & Room Temperature

Product Information

Applications:

- For the isolation of nucleosome-associated DNA from fresh or frozen cells.
- Ideal for use in nucleosome mapping studies.
- Contains a newly developed enzyme - **Atlantis dsDNase** that replaces conventional micrococcal nuclease for nucleosomal DNA preparation.
- **Atlantis dsDNase** digestion yields homogenous populations of core nucleosomes.

Description:

The EZ Nucleosomal DNA Prep Kit is a streamlined procedure for the isolation of nucleosome-associated DNA. The kit includes reagents/procedures for: cell nuclei isolation, intact nuclei enzymatic digestion, and nucleosomal DNA purification. This kit includes two different enzymes for nucleosomal DNA preparation: Atlantis dsDNase and micrococcal nuclease.

Atlantis dsDNase is a double-strand DNA specific endonuclease that cleaves phosphodiester bonds in DNA to yield oligonucleotides with 5'-phosphate and 3'-hydroxyl termini. Atlantis dsDNase digestion yields very homogeneous populations of core nucleosomes and purification of the nucleosome-associated DNA is performed using Zymo Research's proven *Fast-Spin* column technology. The result is pure nucleosomal DNA ready for analysis in less than 45 minutes!

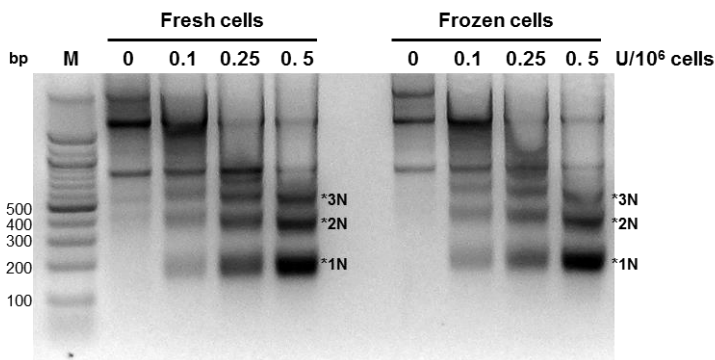
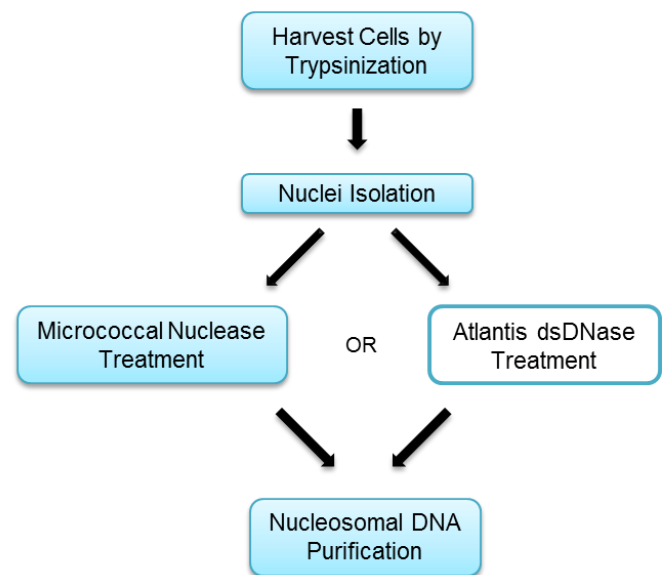
Product Contents:

Component in D5220	Cat. No.	Amount	Storage
Atlantis dsDNase (0.1 U/μl)	E2030	12.5 U (125 μl)	-20°C
Atlantis Digestion Buffer	E2030-1	50 ml	RT
Micrococcal Nuclease (0.1 U/μl)	D5220-1	10 U (100 μl)	-20°C
Nuclei Prep Buffer	D5220-2	50 ml	RT
MN Digestion Buffer	D5220-3	50 ml	RT
5X MN Stop Buffer	D5220-4	6 ml	RT
DNA Binding Buffer	D4003-1-25	25 ml	RT
DNA Wash Buffer (concentrate)	D4003-2-6	6 ml	RT
DNA Elution Buffer	D3004-4-S	1 ml	RT
Zymo Spin IICR Column	C1078-20	20	RT
Collection Tube	C1001-20	20	RT

RT- Room Temperature

Storage: Store Atlantis dsDNase and micrococcal nuclease at -20°C for up to 12 months. Avoid repeated freeze/thawing. Prolonged storage should be ≤70 °C. All other reagents are stable at room temperature for up to 12 months.

Outline of the Nucleosomal DNA Prep Kit



Mammalian Nucleosomal DNA Preparation: Mammalian nuclei prepared as indicated by the *Mammalian Nuclei Prep Protocol* (see next page) was treated with 0.1 U, 0.25 U, and 0.5 U (unit) Atlantis dsDNase for the 20 min at 42°C. DNA was subsequently resolved in a 2% agarose gel. 100 bp DNA ladder (Zymo Research Corp.). Asterisks (1N, 2N, 3N) represent mono-, di-, and tri-nucleosomal DNAs, respectively.

Suggested parameters:

	Cell Density	Atlantis dsDNase	Micrococcal Nuclease
Mammalian cells	1x10 ⁶	0.25-0.5 U	0.05-0.5 U

