

EzApply DNA Instruction Manual

September 17, 2025 4th edition

1. Precautions for safe use of this product

To use this product safely, please read this instruction manual carefully first. Please refrain from operating the product until you fully understand the contents of this instruction manual. This instruction manual describes only how to use this product for the specified purpose. Please refrain from using the product for purposes or in ways not described in this instruction manual. If you use the product for purposes or in ways not described in this instruction manual, you are solely responsible for all necessary safety measures and unforeseen circumstances. Also, please carefully read and understand the instruction manuals of any devices you will be using at the same time.

2. Purpose of use

This product is a loading dye used for DNA and RNA electrophoresis. It provides density to DNA and RNA samples and allows monitoring of the migration of two tracking dyes during electrophoresis.

3. Product configuration

Name	Volume	Quantity
EzApply DNA	10 mL	1

4. Composition

Name	Main component
EzApply DNA	15% Ficoll, 0.05% bromophenol blue, 0.05% red dye

This Product does not contain any poisonous or deleterious substances under the Poisonous and Deleterious Substances Control Law, or any substances subject to notification that exceed the exemption amounts stipulated under the Industrial Safety and Health Law or the PRTR Law. For details, please download the SDS for this product from the ATTO website (<https://www.atto.co.jp/>).

5. Storage

- This product should be stored refrigerated (2–10 °C). For long-term storage, we recommend dispensing into appropriate amounts and storing them frozen (–20 °C or below). It is stable for approximately two years when frozen (–20 °C or below) and approximately one year when refrigerated (2–10 °C). Please be aware that this product is transported at room temperature.

6. Disposal method

- Dispose of each reagent in accordance with the disposal method of your affiliated institution.

7. Items required other than this product

- Electrophoresis equipment
- Agarose
- Electrode solution etc.

8. Precautions for use

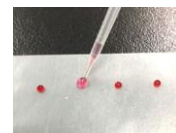
- This product is a 6× stock solution. Please dilute it according to the instructions before use.
- This product is sterilized and DNase-free. However, once opened, contamination may occur, and sterility and DNase-free conditions may no longer be guaranteed. Please handle it carefully.
- This product should be stored refrigerated (2–10 °C). For long-term storage, we recommend storing at frozen (–20 °C or below). It is stable for approximately two years when frozen (–20 °C or below) and approximately one year when refrigerated (2–10 °C). Please be aware that this product is transported at room temperature.

9. How to use

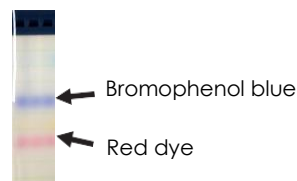
- EzApply DNA** from the refrigerator and mix thoroughly.
- Add 1/5 volume of **EzApply DNA** to the DNA or RNA sample and mix thoroughly.
* Add 1 μL of **EzApply DNA** to 5 μL of the sample.
- Apply the sample to the wells of the gel and run electrophoresis.

How to Use Parafilm

- Place 1–2 μL of **EzApply DNA** onto Parafilm in separate drops.
- Mix 5–10 μL of DNA or RNA sample with the **EzApply DNA** drops on Parafilm (see photo on the right).
- Apply the sample to the wells of the gel and run electrophoresis.



10. The separation pattern of EzApply DNA



Dye	1% Agarose/TAE	2% Agarose/TAE
Bromophenol blue	~400 bp	~150 bp
Red dye	<50 bp	<10 bp


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