WSE-7050 *EzRun TAE* Instruction Manual

August 15th, 2016 Ver. 2

1. Safety precautions

Before using the product, read this instruction manual thoroughly at first. Do not start the operation until you understand contents of the manual. Also, this document describes only method used for specified purpose with this product. Do not use this product for any purpose or by any method other than described here. If you use this product for any purpose or by any method other than described in this manual, you will be held responsible for any necessary safety measures as an operator.

2. Application

This product is a gel buffer and electrode buffer for agarose gel electrophoresis.

3. Package

Product name	Volume	Package
EzRun TAE	500mL	1 bottle

4. Components

Product name	Main components
EzRun TAE	2.0 M Tris-Acetate 0.05M EDTA

This product includes notifiable materials exceeding to regulated amount for exclusion decided by Industrial Safety and Health Law. If you need SDS, please contact our sales department.

5. Storage

- Keep ***EzRun TAE*** at room temperature, away from direct sun light. Unopened package is stable until expiration date for use.
- Keep diluted solution made of ***EzRun TAE*** at room temperature, away from direct sun light. Stopper it tightly for preservation.
- Used buffer for electrophoresis cannot be reused.

6. Disposal method

- Follow the disposal method decided by the organization you belong to.
- Material of bottle (main body, Lid):

  Polypropylene

7. Necessary things other than this product

- Magnetic stirrer
- Stirrer bar
- Beaker
- Graduated cylinder
- Container such as media bottle
- Distilled water
- Agarose
- Electrophoresis chamber
- Power supply for electrophoresis

8. Precautions for use

- This product is 50x concentrated stock solution. Dilute it in accordance with the usage.
- ***EzRun TAE*** is sterilized, but be careful sterilized condition may not be maintained if various germs mix after opening a package.
- ***EzRun TAE*** doesn't include a preservative. Be careful of contamination at the time of opening.

9. Usage

Agarose gel electrophoresis

Prepare a buffer for agarose gel cast and migration with ***EzRun TAE.***

A. Agarose gel casting

1. Dilute ***EzRunTAE*** 50 times with distilled water. In the case of making 50mL agarose gel solution, add 1mL ***EzRun TAE*** to 49mL distilled water and mix them.

2. Refer to Table 1 and weigh agarose. Add amount needed of ***EzRun TAE*** diluted 50 times to it.

Table 1. DNA size and Agarose gel concentration

DNA size(bp)	Agarose gel concentration (w/v)
1,000-20,000	0.6%
800-10,000	0.7%
500-7,000	1.0%
400-6,000	1.2%
200-3,000	1.5%
100-2,000	2.0%

ATTO CORPORATION
3-2-2 Motoasakusa,
Taito-ku, Tokyo 111-0041, JAPAN
Tel +81 3 5827 4863
Fax +81 3 5827 6647
E-mail: eig@atto.co.jp
http://www.atto.co.jp/eng

Distributed by:

3. Dissolve agarose with a microwave oven or hot water bath.

Caution: Hot

Dissolved agarose is very hot.

It may happen a bumping.

Put on heat-resistant gloves for preventing your body from heat.

4. Pour agarose solution to a gel cast, and leave it quietly for polymerization.

B. Preparation of electrode buffer for agarose gel electrophoresis

Dilute ***EzRun TAE*** 50 times. For example, add 10 mL ***EzRun TAE*** to 490 mL distilled water and mix them.

C. Electrophoresis

If you use WSE-1710 Submerge Mini, set the condition as 50V/60min or 100V/30min.

*This migration time is approximate. Confirm an actual migration distance to set the time.

10. Supplementary item

- Refer to and follow an instruction manual of electrophoresis apparatus and power supply you use with this product.

ATTO CORPORATION
3-2-2 Motoasakusa,
Taito-ku, Tokyo 111-0041, JAPAN
Tel +81 3 5827 4863
Fax +81 3 5827 6647
E-mail: eig@atto.co.jp
http://www.atto.co.jp/eng

Distributed by: