How To Make TE Buffer pH 8.0

About TE buffer

TE buffer (Tris-EDTA) is a commonly used buffer solution for resuspending and storing nucleic acids, especially DNA. The Tris solution keeps the DNA soluble in water while EDTA, a chelator of cations such as magnesium, protects nucleic acids against enzymatic degradation.

Recipe

The recipe below is to create a 100 mL TE buffer solution.

Reagent	Volume	Final concentration
1M Tris-Cl (pH 8.0)	1 mL	10 mM
0.5M EDTA (pH 8.0)	0.2 mL	1 mM
Distilled H_2O	98.8 mL	

How to make TE buffer

1. Measure out 1 mL 1M Tris-Cl (pH 8.0) and add to a 100 mL Duran bottle.
2. Measure out 0.2 mL 0.5M EDTA (pH 8.0) and add to the Duran bottle.
3. Top up the solution to 100 mL by adding 98.8 mL of distilled water.
4. Place the lid on the bottle and invert a few times to mix.
5. To sterilise, autoclave the solution on a liquid cycle (20 min at 15 psi).

Storage of TE buffer

Store TE buffer at room temperature (+15^{o}C – +25^{o}C).

Safety

TE buffer is not classified as hazardous. However, always be sure to read the TE buffer safety data sheet before use.

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Steven is the founder of Top Tip Bio. He is currently a Medical Writer and a former Postdoctoral Research Associate. Enjoyed the tutorial? Then let me know by leaving a comment below, or consider buying me a coffee.