

Supplementary Method 12 Preparation of 0.1M Tris HCl pH 6.4

Reagents

- Tris HCl
- MilliQ water
- 5M NaOH (see Supplementary Method 13)

Equipment

- 1L beaker
- 5L beaker
- 1L or 2L graduated cylinder
- Vacuum filter
- pH meter
- Sterile bottles
- Weighing scales
- Magnetic flea
- Magnetic stirrer

Procedure

NOTE: Masks should be worn when making this buffer if there is a possibility of asymptomatic COVID-19 infection causing contamination.

Buffer is not hazardous so can be made on open bench.

How to make 1L 0.1M Tris HCl pH 6.4

1. Weigh out **15.76g** Tris HCl and add to a 1L beaker.

Initials:

2. Measure out **800 mL** milliQ water and add to the beaker.

Initials:

3. Add a magnetic flea and place on a magnetic stirring plate to mix the solution.
4. Add a newly calibrated pH meter into the solution to observe the pH.
(Reading.....)
5. Tune pH with 5M NaOH. (Batch Number) Final pH is

Initials:

6. Transfer to a 1L graduated cylinder and make up to 1000 mL using milliQ water.
Swirl.

Initials:

7. Vacuum filter into sterile bottles.

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8. Label with batch number and date.

Initials:

Store 1L 0.1 M Tris HCl, pH 6.4 solution at room temperature (+15°C – +25°C).

How to make 5L 0.1M Tris HCl pH 6.4

1. Weigh out **78.8g** Tris HCl and add to a 5L beaker.

Initials:

2. Measure out **4L** milliQ water and add to the beaker.

Initials:

3. Add a magnetic flea and place on a magnetic stirring plate to mix the solution.

4. Add a newly calibrated pH meter into the solution to observe the pH.
(Reading.....)

5. Tune pH with 5M NaOH. (Batch Number) Final pH is

Initials:

6. Make up to 5L using milliQ water by transferring to a second 5L beaker via a 2L graduated cylinder. Swirl.

Initials:

7. Vacuum filter into sterile bottles.

8. Label with batch number and date.

Initials:

Store 0.1 M Tris HCl, pH 6.4 solution at room temperature (+15°C – +25°C).