

# Stock Solution



TD-S Revision 2.0

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## 1M Tricine Buffer - 1 L

### Instructions

1. Dissolve 179.17 g of Tricine ([Tricine, GoldBio Catalog # T-870](#) [CAS 5704-04-1, mw. = 179.17 g/mol]) in 750 mL of dH<sub>2</sub>O.
2. Adjust to desired pH using 10N NaOH.
3. Fill to final volume of 1 L with dH<sub>2</sub>O.
4. Filter sterilize (recommended) or autoclave.
5. Store at 4°C.

To make a 1 L solution of 1M Tricine, use the table below to estimate the required volume of base for a given pH:

Starting pH: 5.38  
Adjust pH with: 10N NaOH

pH	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8
mL	9	11	14	17	20	24	28	33	38	43	48	54	59	64	69

**Note: This data was collected in GoldBio labs using GoldBio reagents and calculated using 100 ml volumes. All reagent volumes recorded above were adjusted accordingly to create this protocol.**

Tricine pKa at 25°: 8.05  
Tricine pH range: 7.4 – 8.8  
d(pKa)/dT value: -0.021