

# Stock Solution



TD-S Revision 2.0

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## 1M TAPS Buffer - 1 L

### Instructions

1. Dissolve 243.28 g of TAPS ([TAPS, GoldBio Catalog # T-780](#) [CAS 29915-38-6, mw. = 243.28 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 TAPS, use the table below to estimate the required volume of base for a given pH:

Starting pH: 2.81  
Adjust pH with: 10N NaOH

pH	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1
mL	6.5	8	10	13	16	19	23	26	32	36	41	47	52	57	62

**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.**

TAPS pKa at 25°: 8.40  
TAPS pH range: 7.7 – 9.1  
d(pKa)/dT value: 0.018