

# pDST Calculator - Step 2 Instructions

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## Parameters

Drug	Crit. Conc. ( $\mu\text{g}/\text{ml}$ )	Org. Mol. Wt. (g/mol)	Purch. Mol. Wt. (g/mol)	MGIT Tubes
Amikacin (AMK)	1.00	585.6	600.00	5.0
Bedaquiline (BDQ)	1.00	555.5	555.50	4.0

## Calculations

Drug	Potency	Working Solution Concentration ( $\mu\text{g}/\text{ml}$ )	Working Solution Volume (ml)
Amikacin (AMK)	1.02	84.00	0.70
Bedaquiline (BDQ)	1.00	84.00	0.60

## Aliquot Planning

Drug	Number of Aliquots	Volume per Aliquot (ml)	Total Aliquot Volume (ml)
Amikacin (AMK)	4.0	3.00	12.00
Bedaquiline (BDQ)	5.0	1.00	5.00

## Stock Solution Preparation

Drug	Drug to Weigh Out (mg)
Amikacin (AMK)	10.33
Bedaquiline (BDQ)	0.84

## Enter Weighed Value

Drug	Weighed Value (mg)
Amikacin (AMK)	
Bedaquiline (BDQ)	

## Instructions:

- Review the calculated values above
- Ensure all equipment and materials are prepared according to your laboratory protocols
- Weigh out the required amounts of each drug according to above calculations
- Return to this session and enter actual weights in Step 3