

Materials List for:

Facile Preparation of 4-Substituted Quinazoline DerivativesDaniel Z. Wang¹, Lesong Yan², Lingmei Ma¹¹School of Science and Computer Engineering, University of Houston-Clear Lake²Airgas Specialty Gas, Airgas USA LLCCorrespondence to: Daniel Z. Wang at Wang@uhcl.eduURL: <https://www.jove.com/video/53662>DOI: [doi:10.3791/53662](https://doi.org/10.3791/53662)**Materials**

Name	Company	Catalog Number	Comments
2-Aminobenzophenone	Alfa Aesar	A12580	98% purity, with tiny impurity as seen on Figure 1(A) in the manuscript.
Thiourea	Acros	138910010	1 kg package, 99%, extra pure
Dimethyl Sulfoxide	Acros	326880010	Methyl sulfoxide, 99.7+%, Extra Dry, AcroSeal®
<i>N,N</i> -Dimethylformamide	Acros	348430010	<i>N,N</i> -Dimethylformamide, 99.8%, Extra Dry over Molecular Sieve, AcroSeal®
Ethyl Acetate	Acros	610170040	Ethyl acetate, used as solvent for GC/MS analysis
Preparative TLC plate	Sigma-Aldrich	Z740216 SIGMA	PTLC (Preparative TLC) Glass Plates from EMD/Merck KGaA
Rotavapor	Buchi	Rotavapor R-205	Use to dry solvent
Microwave Reactor	Biotage	Initiator+	Use to carry out chemical reaction under microwave irradiation
Hotplate	IKA	RCT basic	use to carry out thermal chemical reaction