

**Department of Optoelectronics, University of Kerala, Kariavattom,
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OPTO/CHE -02/2021-22

Quotation Notice

Quotations are invited for the following Chemicals and consumables in the Department of Optoelectronics, University of Kerala, Kariavattom, Thiruvananthapuram in connection with the implementation of project entitled "Investigations on Crystalline Nanowires.

Chemicals List

SI No	Chemical Name	Formula	Pack	Qty	Preferred Brand
1.	Hydrogen Tetraaurochlorate (III) hydrate	$\text{HAuCl}_4 \cdot 3\text{H}_2\text{O}$	1g	4	Alfa Aesar/Sigma Aldrich
2.	Hydrogen tetrachloroaurate (III) solution	HAuCl_4	1g	1	Alfa Aesar/Sigma Aldrich
3.	Silver Chloride	AgCl	5g	1	Alfa Aesar/Sigma Aldrich
4.	Copper(I) chloride	CuCl	25g	1	Alfa Aesar/Sigma Aldrich
5.	1-Methyl-2-pyrrolidinone	$\text{C}_5\text{H}_9\text{NO}$	100ml	1	Alfa Aesar/Sigma Aldrich
6.	Copper()acetate monohydrate		50g	1	Alfa Aesar/Sigma Aldrich
7.	L ascorbic acid	$\text{C}_6\text{H}_8\text{O}_6$	25g	1	Alfa Aesar/Sigma Aldrich
8.	1-octadecene	$\text{CH}_3(\text{CH}_2)_{15}\text{C}$ $\text{H}=\text{CH}_2$	250mL	1	Alfa Aesar/Sigma Aldrich
9.	Diethylene Glycol	$(\text{HOCH}_2\text{CH}_2)_2$ O	250g	1	Alfa Aesar/Sigma Aldrich
10.	Ammonium chloride	NH_4Cl	500g	1	Alfa Aesar/Sigma Aldrich
11.	1,3,5- benzene tricarboxylate(H3BTC)	$\text{C}_6\text{H}_3(\text{CO}_2\text{H})_3$	100g	1	Alfa Aesar/Sigma Aldrich
12.	Silver Nitrate	AgNO_3	25g	1	Alfa Aesar/Sigma Aldrich

	Sodium tetrachloropalladate(II)	Na_2PdCl_4	1g	1	Alfa Aesar/Sigma Aldrich
14.	Polyvinylpyrrolidone MW : 360,000	$(\text{C}_5\text{H}_9\text{NO})_n$	100g	1	Alfa Aesar/Sigma Aldrich
15.	Oleylamine		100g	2	Alfa Aesar/Sigma Aldrich
16.	Triisopropylsilane		10g	1	Alfa Aesar/Sigma Aldrich
17.	2-Mercaptobenzothiazole (MBT)	$\text{C}_7\text{H}_5\text{NS}_2$	100g	1	Alfa Aesar/Sigma Aldrich
18.	2-naphthalenethiol	$\text{C}_{10}\text{H}_7\text{SH}$	5g	1	Alfa Aesar/Sigma Aldrich
19.	Acetic Acid, Glacial	$\text{CH}_3\text{CO}_2\text{H}$	100ml	1	Alfa Aesar/Sigma Aldrich
20.	Formic Acid	HCOOH	100ml	1	Alfa Aesar/Sigma Aldrich
21.	1,2-dichloropropane	$\text{CH}_2\text{CHClCH}_2$ Cl	250ml	1	Alfa Aesar/Sigma Aldrich
22.	Tris(trimethylsilyl)silane	$[(\text{CH}_3)_3\text{Si}]_3\text{SiH}$	5g	1	Alfa Aesar/Sigma Aldrich
23.	(1-Hexadecyl)trimethylammonium chloride	$\text{C}_{15}\text{H}_{42}\text{ClN}$	5g	1	Alfa Aesar/Sigma Aldrich
24.	PEDOT:PSS [Poly(3,4- ethylenedioxythiophene)- poly(styrenesulfonate)]		5g	1	Alfa Aesar/Sigma Aldrich
25.	Mercaptosuccinic acid		25 g	1	Alfa Aesar/Sigma Aldrich
26.	1-Dodecanethiol		500 ml	1	Alfa Aesar/Sigma Aldrich
27.	tert-Dodecylmercaptan		100 ml	1	Alfa Aesar/Sigma Aldrich
28.	Triphenylphosphine		25 g	1	Alfa Aesar/Sigma Aldrich
29.	1,8 Naphthalimide		10 g	1	Alfa Aesar/Sigma Aldrich
30.	11- mercaptoundecanoic acid (MUA)		5 g	1	Alfa Aesar/Sigma

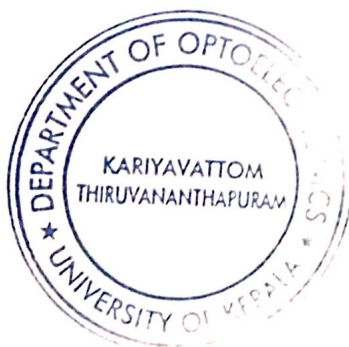
					Aldrich
31.	HEPES		20 ml	1	Alfa Aesar/Sigma Aldrich
32.	dichloromethane (DCM)		1 L	1	Alfa Aesar/Sigma Aldrich
33.	Coumarin 102		100 mg	1	Alfa Aesar/Sigma Aldrich
34.	4 mercaptophenol		5 g	1	Alfa Aesar/Sigma Aldrich
35.	Glutathion		300 mg	1	Alfa Aesar/Sigma Aldrich
36.	Oleic acid		5 g	1	Alfa Aesar/Sigma Aldrich
37.	Sodium Oleate		250 mg	1	Alfa Aesar/Sigma Aldrich
38.	Bis(2,2'-bipyridine)-4'-methyl-4-carboxybipyridine-ruthenium <i>N</i> -succinimidyl ester-bis(hexafluorophosphate)		1 mg	1	Alfa Aesar/Sigma Aldrich
39.	Fluorescein 5(6)-isothiocyanate (Bio Reagent, suitable for fluorescence, mixture of 2 components, ≥90% (HPLC))		50 mg	1	Alfa Aesar/Sigma Aldrich
40.	Evans Blue		10 g	1	Alfa Aesar/Sigma Aldrich
41.	Bovine Serum Albumin, lyophilized powder, crystallized, ≥98.0% (GE)		25 mg	1	Alfa Aesar/Sigma Aldrich
42.	Ethylenediamine	C ₂ H ₈ N ₂	500mL	1	
43.	Ethanol		2.5L	2	
44.	Hexane		2.5L	1	
45.	Sulfuric Acid	H ₂ SO ₄	500ml	1	
46.	Methanol		1L	1	
47.	Diethylamine		1 L		

List of Consumables

Sl No	Item	Qty	Remarks
1	Nitrile Gloves	4 packs	Kimberly Clark Size: M Material Type; Latex Free Colour: Purple
2	Polyethylene terephthalate (PET) substrate	A4 size/ 1 roll	175 micrometer thickness
3	Spatula		Stainless steel
	i. Big Spoon Spatula (7.5inch)	6	
	ii. One end flat and one end Spoon (4 inch)	6	
	iii. Micro Scoop (6 inch)	6	
	iv. One end flat and one end Spoon (8 inch)	6	
4	6403-FUNNELS (250ml)	1	Borosil : Product Code 6403021
5	N95 particulate respirator	10 nos	
6	Micro centrifuge tube (2ml)	500nos	
7	Storage Vial (10ml)	500nos	: Medical Grade PP/HOPE confirming to US FDA 21 CFR
8	Glass Vial (5 ml) with screw cap	50nos	borosilicate
9	Glass Vial (10 ml) with screw cap	50nos	borosilicate
10	3840-EXTRACTION APPARATUS 200ml	1	Borosil product code: 3840020

The firms who wish to supply the items are requested to submit the quotation in sealed cover to the undersigned not later than 4.30 pm on 12.08.2021. Quotations will be opened at 10.30 am on next working day (13.08.2021) in the presence of the suppliers or their authorized agents.

02.08.2021




Professor & Head

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