

Materials List for

# Identifying the Binding Proteins of Small Ligands with the Differential Radial Capillary Action of Ligand Assay (DRaCALA)

Muriel Leandra Schicketanz<sup>1</sup>, Paulina Dlugosz<sup>1</sup>, Yong Everett Zhang<sup>1</sup>

<sup>1</sup>Department of Biology, University of Copenhagen

## Corresponding Author

**Yong Everett Zhang**  
yong.zhang@bio.ku.dk

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## Materials

Name	Company	Catalog Number	Comments
<sup>32</sup> P- $\alpha$ -GTP	Perkinelmer	BLU006X250UC	
96 x pin tool	V&P Scientific	VP 404	96 Bolt Replicator, on 9 mm centers, 4.2 mm Bolt Diameter, 24 mm long
96-well V-bottom microtiter plate	Sterilin	MIC9004	Sterilin Microplate V Well 611V96
Agar	OXOID - Thermo Fisher	LP0011	Agar no. 1
ASKA collection strain	NBRP, SHIGEN, JAPAN		Ref: DNA Research, Volume 12, Issue 5, 2005, Pages 291–299. <a href="https://doi.org/10.1093/dnares/dsi012">https://doi.org/10.1093/dnares/dsi012</a>
Benzonase	SIGMA	E1014-25KU	genetically engineered endonuclease from <i>Serratia marcescens</i>
Bradford Protein Assay Dye	Bio-Rad	5000006	Reagent Concentrate
DMSO	SIGMA	D8418	≥99.9%
DNase 1	SIGMA	DN25-1G	
gel filtration 10x300 column	GE Healthcare	28990944	contains 20% ethanol as preservative
Glycerol	PanReac AppliChem	122329.1214	Glycerol 87% for analysis
Hypercassette	Amersham	RPN 11647	20 x 40 cm
Imidazole	SIGMA	56750	puriss. p.a., ≥ 99.5% (GC)
IP Storage Phosphor Screen	FUJIFILM	28956474	BAS-MS 2040 20x 40 cm
Isopropyl $\beta$ -D-1-thiogalactopyranoside (IPTG)	SIGMA	I6758	Isopropyl $\beta$ -D-thiogalactoside
Lysogeny Broth (LB)	Invitrogen - Thermo Fisher	12795027	Miller's LB Broth Base
Lysozyme	SIGMA	L4949	from chicken egg white; BioUltra, lyophilized powder, ≥98%
MgCl <sub>2</sub> (Magnesium chloride)	SIGMA	208337	
MilliQ water			ultrapure water
multichannel pipette	Thermo Scientific	4661110	F1 - Clip Tip; 1-10 $\mu$ l, 8 x channels
NaCl	VWR Chemicals	27810	AnalaR NORMAPUR, ACS, Reag. Ph. Eur.

Ni-NTA Agarose	Qiagen	30230	
Nitrocellulose Blotting Membrane	Amersham Protran	10600003	Premium 0.45 um 300 mm x 4 m
PBS	OXOID - Thermo Fisher	BR0014G	Phosphate buffered saline (Dulbecco A), Tablets
PEG3350 (Polyethylene glycol 3350)	SIGMA	202444	
phenylmethanesulfonyl fluoride (PMSF)	SIGMA	93482	Phenylmethanesulfonyl fluoride solution - 0.1 M in ethanol (T)
Phosphor-imager	GE Healthcare	28955809	Typhoon FLA-7000 Phosphor-imager
Pipette Tips, filtered	Thermo Scientific	94410040	ClipTip 12.5 µl nonsterile
Poly-Prep Chromatography column	Bio-Rad	7311550	polypropylene chromatography column
Protease inhibitor Mini	Pierce	A32955	Tablets, EDTA-free
screw cap tube	Thermo Scientific	3488	Microcentrifuge Tubes, 2.0 ml with screw cap, nonsterile
SLS 96-deep Well plates	Greiner	780285	MASTERBLOCK, 2 ML, PP, V-Bottom, Natural
spin column	Millipore	UFC500396	Amicon Ultra -0.5 ml Centrifugal Filters
Thermomixer	Eppendorf	5382000015	Thermomixer C
TLC plate (PEI-cellulose F TLC plates)	Merck Millipore	105579	DC PEI-cellulose F (20 x 20 cm)
Tris	SIGMA	BP152	Tris Base for Molecular Biology
Tween 20	SIGMA	P1379	viscous non-ionic detergent
β-mercaptoethanol	SIGMA	M3148	99% (GC/titration)