

Materials List for:

Genome-wide Mapping of Drug-DNA Interactions in Cells with COSMIC (Crosslinking of Small Molecules to Isolate Chromatin)

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Materials

Name	Company	Catalog Number	Comments
Phenylmethylsulfonyl fluoride (PMSF)	any source		
Benzamidine	any source		
Pepstatin	any source		
Proteinase K	any source		
Dynabeads MyOne Streptavidin C1	Life Technologies	65001	
PBS, pH 7.4	Life Technologies	10010-023	Other sources can be used
StemPro Accutase Cell Dissociation Reagent	Life Technologies	A1110501	
QIAquick PCR Purification Kit	Qiagen	28104	We have tried other manufacturers of DNA columns with success.
TruSeq ChIP Sample Prep Kit	Illumina	IP-202-1012	This Kit can be used to prepare COSMIC DNA for next-generation sequencing
Matrigel Basement Membrane Matrix	BD Biosciences	356231	Used to coat plates in order to grow H1 ESCs
pH paper	any source		
amber microcentrifuge tubes	any source		
microcentrifuge tubes	any source		
pyrex filter	any source		Pyrex baking dishes are suitable
qPCR master mix	any source		
RNase	any source		
HCl (6 N)	any source		
10-cm tissue culture dishes	any source		
Serological pipettes	any source		
Pasteur pipettes	any source		
Pipette tips	any source		
15-ml conical tubes	any source		
centrifuge	any source		
microcentrifuge	any source		
nutator	any source		
Magnetic separation rack	any source		

UV source	CalSun	B001BH0A1A	Other UV sources can be used, but crosslinking time must be optimized empirically
Misonix Sonicator	Qsonica	S4000 with 431C1 cup horn	Other sonicators can be used, but sonication conditions must be optimized empirically
Humidified CO ₂ incubator	any source		
Biological safety cabinet with vacuum outlet	any source		