

Materials List for:

Screening for Endocrine Activity in Water Using Commercially-available *In Vitro* Transactivation Bioassays

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Materials

Name	Company	Catalog Number	Comments
GeneBLAzer ER alpha DA assay kit	ThermoFisher	K1393	Kit includes ER division arrested (DA) cells and LiveBLAzer FRET loading kit.
GeneBLAzer GR DA assay kit	ThermoFisher	K1391	Kit includes GR division arrested (DA) cells and LiveBLAzer FRET loading kit.
PrestoBlue cell viability reagent	ThermoFisher	A-13261	
Trypan blue, 0.4% in PBS	Sigma-Aldrich	T8154	Also available at ThermoFisher
Corning 96-well black wall, clear-bottom plate	Corning	3603	Individually wrapped, sterile with lid
Whatman glass fiber filters, GF/A, 1.6 µm	Sigma-Aldrich	WHA1820025	
Microplate aluminum sealing film	E&K Scientific	T592100	
Oasis HLB 6 cc cartridge, 200 mg sorbent	Waters	WAT106202	
17β Estradiol	Sigma-Aldrich	E2758	CAS #50-28-2
Ascorbic acid	Fisher Scientific	A61-100	Also available at Sigma-Aldrich
Dexamethasone	Sigma-Aldrich	D4902	CAS #50-02-2
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	D8418	Molecular grade
Solvents (acetone, hexane, methanol)	Fisher Scientific		HPLC grade
Sodium azide	Sigma-Aldrich	S2002	Chemical is highly toxic and must be handled with caution. Use protective clothing and weigh under a fume-hood. Also available at EMD Millipore.
Automated cell counter or hemocytometer	Various*		Suppliers include Bio-Rad, Fisher Scientific, Sigma-Aldrich and ThermoFisher.
Class II biological safety cabinet	Various*		
CO ₂ incubator	Various*		
Cryogenic freezer	Various*		Liquid nitrogen storage dewar is recommended.
Fluorescence microplate-reader	Various*		The reader must have bottom read capabilities.
* No recommended source, the choice of this equipment depends on budget, frequency of use, and lab space.			