

Materials List for:

Homogeneous Time-resolved Förster Resonance Energy Transfer-based Assay for Detection of Insulin Secretion

Despoina Aslanoglou¹, Emily W. George¹, Zachary Freyberg^{1,2}

¹Department of Psychiatry, University of Pittsburgh

²Department of Cell Biology, University of Pittsburgh

Correspondence to: Zachary Freyberg at freyberg@pitt.edu

URL: <https://www.jove.com/video/57531>

DOI: [doi:10.3791/57531](https://doi.org/10.3791/57531)

Materials

Name	Company	Catalog Number	Comments
96-well white half area plate	Greiner Bio-One	82050-042	
384-well white low-volume, round-bottom plate	Corning	15100157	
Insulin High Range Kit	Cisbio Bioassays	62IN1PEH	10,000 test HTRF-based insulin assay kit
PERAstar FSX plate reader	BMG Labtech	FSX	Plate reader adapted for HTRF-based assay readings
Plate sealers	Fisher Scientific	DY992	To seal plate while antibodies incubate
Hemocytometer	Hausser Scientific	3100	
RPMI Medium 1640 (1x)	Gibco	11875-093	[+] L-glutamine
Trypsin 0.05%	Corning	25-052-CI	0.53 mM EDTA, (-) sodium bicarbonate
DPBS (Dulbecco's phosphate buffered saline)	Corning	21-031-CV	Without calcium and magnesium
Fetal Bovine Serum	Corning	35-010-CV	
HEPES	Gibco	156-30-080	
Sodium pyruvate	Gibco	11360070	
Penicillin/Streptomycin solution 100x	Corning	30-002 CT	
2-mercaptoethanol	Sigma	M1348	
Trypan Blue Stain (0.4%)	Gibco	15250-061	
Dopamine hydrochloride	Sigma	8502	
Bromocriptine mesylate	Tocris	427	
(-)-Quinpirole hydrochloride	Tocris	1061	
Bovine Serum Albumin	Calbiochem	12659	
Poly-L-Lysine	Sigma	P4832	
Glucose	Sigma	G7021	
DMSO (Dimethyl sulfoxide)	Sigma	276855	