

Materials List for:

Measuring Intracellular Ca²⁺ Changes in Human Sperm using Four Techniques: Conventional Fluorometry, Stopped Flow Fluorometry, Flow Cytometry and Single Cell Imaging

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URL: <https://www.jove.com/video/50344>

DOI: [doi:10.3791/50344](https://doi.org/10.3791/50344)

Materials

Name	Company	Catalog Number	Comments
Ham's F-10	Sigma-Aldrich	N-6013	
Bovine Serum Albumin	Sigma-Aldrich	A-7906	
Calcium Chloride Dihydrate approx. 99%	Sigma-Aldrich	C-3881	
Makler Counting Chamber	SEFI Medical Instruments LTD	SEF-MAKL	
Fluo-3 AM	Invitrogen	F-1242	20 vials/50 µg each
Ionomycin	Alomone	I-700	
Progesterone	Sigma-Aldrich	P0130	
Sodium chloride	Sigma-Aldrich	S-9888	Reagents for human sperm medium (HSM)
Potassium chloride	Sigma-Aldrich	P-3911	Reagents for human sperm medium (HSM)
Sodium bicarbonate	JT Baker	3506	Reagents for human sperm medium (HSM)
Magnesium chloride	Sigma-Aldrich	M-2670	Reagents for human sperm medium (HSM)
Calcium chloride anhydrous	Sigma-Aldrich	C-1016	Reagents for human sperm medium (HSM)
HEPES	Sigma-Aldrich	H-3125	Reagents for human sperm medium (HSM)
D-Glucose	JT Baker	1906-01	Reagents for human sperm medium (HSM)
Sodium pyruvate	Sigma-Aldrich	P-2256	Reagents for human sperm medium (HSM)
Sodium L-lactate (aprox. 99%)	Sigma-Aldrich	L- 7022	Reagents for human sperm medium (HSM)
Propidium Iodide	Invitrogen	L-7011	Component B
Triton X-100 (t-Octylphenoxyethoxyethanol)	Sigma- Aldrich	X-100	2.4 mM solution in water
Round coverslip	VWR	48380 080	25 mm diameter
Poly-L-lysine solution	Sigma-Aldrich	P8920	
Manganese chloride	Sigma-Aldrich	M-3634	
Attofluor; Cell Chamber, for microscopy	Life technologies	A-7816	
Dimethyl Sulphoxide	Sigma-Aldrich	D2650	5x5 ml