

Materials List for:

Determining the Optimal Inhibitory Frequency for Cancerous Cells Using Tumor Treating Fields (TTFields)

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URL: <https://www.jove.com/video/55820>

DOI: [doi:10.3791/55820](https://doi.org/10.3791/55820)

Materials

Name	Company	Catalog Number	Comments
in vitro system and software	Novocure	ITG1000 and IBP1000	Each unit contains 1 TTFields generator, 1 base plate, 8 TTFields dishes with covers and 1 flat cable.
Sterilization bags	Westfield medical	24882	
Plastic cover slides	Thermo Scientific (NUNC)	174977	Pre treated and sterilized
Glass cover slides	Thermo Scientific (Menzel-Gläser)	CB00220RA1	Sterilize if necessary
Dulbecco's modified Eagle's medium	Biological Industries (Israel)	01-055-1A	Warm in 37 °C water bath before use
RPMI 1640	Gibco	21875-034	Warm in 37 °C water bath before use
Fetal Bovine Serum (FBS)	Biological Industries (Israel)	04-007-1A	Warm in 37 °C water bath before use
L-Glutamine 200 mM (100x)	Gibco	25030-029	
Pen/Strep (10,000 U/mL Penicillin, 10,000 µg/mL Streptomycin)	Gibco	15140-122	
Sodium Pyruvate solution 100 mM	Biological Industries (Israel)	03-042-1B	
Hepes buffer 1 M	Biological Industries (Israel)	03-025-1B	
Insuline solution from bovine pancreas	Sigma-Aldrich	10516-5ML	
0.25% Trypsin/EDTA	Biological Industries (Israel)	03-050-1B	Warm in 37 °C water bath before use
Methanol	Merck	1.06009.2511	Cool to -20 °C in the freezer before use
Crystal violet	Sigma-Aldrich	120M1445	Harmful. Prepare 0.1% w/v crystal violet solution in 25% Methanol 75% water.
Light detergent	Alconox	242985	Prepare 5% solution in water, or according to manufacturer's instructions.
PBS	Biological Industries (Israel)	02-023-1A	Without calcium and magnesium
A2780	ECACC	93112519	Grow in RPMI 1640 supplemented with FBS (10%), pen/strep (100 U/mL / 100 µg/mL), sodium pyruvate (1 mM) and Hepes buffer (12 mM).
F98	ATCC	CRL-2397	Grow in Dulbecco's modified Eagle's medium supplemented with FBS (10%), pen/strep (100 U/

			mL / 100 µg/mL), sodium pyruvate (1 mM) and glutamine (2 mM).
Ovcar-3	ATCC	HTB-161	Grow in RPMI 1640 supplemented with FBS (20%), pen/strep (100 U/mL / 100 µg/mL), sodium pyruvate (1 mM), Hepes buffer (12 mM) and insulin (10 µg/mL).
U-87 MG	ATCC	HTB-14	Grow in Dulbecco's modified Eagle's medium supplemented with FBS (10%), pen/strep (100 U/mL / 100 µg/mL), sodium pyruvate (1 mM) and glutamine (2 mM).
refrigerated CO ₂ incubator	CARON	7404-10-3	
Laminar flow cabinet	ADS Laminair	Bio12 and VSM12	