

Materials List for:

Generation of CAR T Cells for Adoptive Therapy in the Context of Glioblastoma Standard of Care

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Materials

Name	Company	Catalog Number	Comments
pCL-Eco Retrovirus Packaging Vector	Imgenex	10045P	Helper vector for generating CAR retrovirus
Concanavalin A	Sigma Aldrich	C2010	Non-specific mitogen to induce T cell proliferation and viral transduction
Retronectin	ClonTech/Takara	T100B	Facilitates retroviral transduction of T cells
Lipofectamine 2000	Life Technologies	11668-019	Transfection reagent
DMEM, high glucose, pyruvate	Life technologies	11995-065	HEK293 culture media
RPMI 1640	Life Technologies	11875-093	T cell culture media
Opti-MEM I Reduced Serum Medium	Life technologies	11058-021	Transfection media
200 mM L-Glutamine	Life technologies	25030-081	T cell culture media supplement
100 mM Sodium Pyruvate	Life technologies	11360-070	T cell culture media supplement
100X MEM Non-Essential Amino Acids Solution	Life technologies	11140-050	T cell culture media supplement
55 mM 2-Mercaptoethanol	Life technologies	21985-023	Reducing agent to remove free radicals
Penicillin-Streptomycin (10,000 U/ml)	Life technologies	15140-122	T cell culture media supplement
Gentamicin (50 mg/ml)	Life technologies	15750-060	T cell culture media supplement
GemCell U.S. Origin Fetal Bovine Serum	Gemini Bio Products	100-500	Provides growth factors and nutrients for <i>in vitro</i> cell growth
Bovine Serum Albumin (BSA), Fraction V—Standard Grade	Gemini Bio Products	700-100P	Blocks non-specific binding of retrovirus to retronectin-coated plates
Pharm Lyse (10x concentrate)	BD Biosciences	555899	Lyses red blood cells during splenocyte processing
70 µm Sterile Cell Strainers	Corning	352350	Filters away large tissue particles during splenocyte processing
100 mm BioCoat Culture Dishes with Poly-D-Lysine	Corning	356469	Promotes HEK293 cell adhesion to maximize proliferation after transfection
Name	Company	Catalog Number	Comments
Temozolomide	Best Pharmatech	N/A	Lyophilized powder prepared on the day of administration
Dimethyl Sulfoxide	Sigma Life Sciences	D2650	Necessary for complete dissolution of temozolomide

Saline	Hospira	IM 0132 (5/04)	Solvent for temozolomide and ketamine/xylazine
Ketathesia HCl	Henry Schein Animal Health	11695-0701-1	Ketamine solution
AnaSed	Lloyd Inc	N/A	Xylazine sterile solution 100 mg/ml