

Materials List for:

# Rotating Cell Culture Systems for Human Cell Culture: Human Trophoblast Cells as a Model

Kevin J. Zwezdaryk<sup>1</sup>, Jessica A. Warner<sup>\*1,2</sup>, Heather L. Machado<sup>3</sup>, Cindy A. Morris<sup>1</sup>, Kerstin Höner zu Bentrup<sup>1</sup>

<sup>1</sup>Department of Microbiology and Immunology, Tulane University Medical School

<sup>2</sup>Physician/Scientist Program, Tulane University Medical School

<sup>3</sup>Department of Molecular and Cellular Biology, Baylor College of Medicine

\*These authors contributed equally

Correspondence to: Kerstin Höner zu Bentrup at [khonerzu@tulane.edu](mailto:khonerzu@tulane.edu)

URL: <https://www.jove.com/video/3367>

DOI: [doi:10.3791/3367](https://doi.org/10.3791/3367)

## Materials

Name	Company	Catalog Number	Comments
Cytodex microcarrier beads	Sigma-Aldrich	C3275	
Rotating Cell Culture System (RCCS)	Synthecon	RCCS-D	Includes rotor base, power supply, 4 disposable RCCS units
RCCS Disposable Units	Synthecon	Contact Synthecon	
3ml Luer-Lock tip syringe	BD Biosciences	309585	
10ml wide-tip serological pipette	BD Biosciences	357504	
MEM Alpha	Invitrogen	12561-072	
Leibovitz's L-15 medium, powder	Invitrogen	41300-039	
H <sub>2</sub> O, Endotoxin free	Fisher Scientific	MT-25-055-CM	
Sodium Bicarbonate	Sigma-Aldrich	S-7795	
Peptone	Fisher Scientific	BP1420-100	
Fructose	Sigma-Aldrich	F3510-100	
Galactose	Sigma-Aldrich	G5388-100	
Glucose	Sigma-Aldrich	G7528-250	
HEPES	Invitrogen	15630-080	
L-Glutamine	Invitrogen	25030	
Insulin-Transferrin-Sodium Selenite (ITS)	Sigma-Aldrich	I1884	
FBS	Invitrogen	10437	
Penicillin-Streptomycin	Invitrogen	15140	