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Materials List for

Hybrid Cell Analysis System to Assess Structural and Contractile Changes of Human iPSC-Derived Cardiomyocytes for Preclinical Cardiac Risk Evaluation

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Materials

Name	Company	Catalog Number	Comments
Commercial human iPSC-derived cardiomyocytes	Fujifilm Cellular Dynamics International (FCDI)	R1059	
Centrifuge (50 mL tubes)	Thermo Fisher Scientific	15878722	
12-channel adjustable pipette (100-1250 µL)	Integra Biosciences	4634	
DPBS with Ca2+ and Mg2+	GE Healthcare HyClone	SH304264.01	
96 deep well plate	Thermo Fisher Scientific	A43075	
EHS gel			Extracellular Matrix Gel
FLEXcyte 96/CardioExcyte hybrid device	Nanion Technologies	19 1004 1005	Hybrid cell analysis system
FLX-96 FLEXcyte Sensor Plates	Nanion Technologies	20 1010	
Fibronectin stock solution (Optional to Geltrex)	Sigma Aldrich	F1141	
Geltrex hESC-Qualified, Ready-To-Use, Reduced Growth Factor Basement Membrane Matrix	ThermoFischer Scientific	A1569601	
Human iPSC-derived cardiomyocytes plating and maintenance medium	FCDI	R1059	
Incubator (37 °C, 5% CO2)	Thermo Fisher Scientific	51023121	
Laminar Flow Hood	Thermo Fisher Scientific	51032678	
NSP-96 CardioExcyte 96 Sensor Plates 2.0 mm transparent	Nanion Technologies	20 1011	
Pipette tips (1250µL)	Integra Biosciences	94420813	
Reagent Reservoir	Integra Biosciences	8096-11	
Serological pipette (e.g. 25 mL)	Thermo Fisher Scientific	16440901	
Single channel adjustable pipette (e.g. 100-1000 µL)	Eppendorf	3123000063	

Vacuum aspiration system	Thermo Fisher Scientific	15567479	
Optional: VIAFLO ASSIST	Integra Biosciences	4500	Lab automation Robot
Water bath (37 °C)	Thermo Fisher Scientific	15365877	