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Protocol for Emulate Organ-Chips:

Triglycerides Quantification Assay

April 11, 2019

EP133 v.1.0

TITLE Triglycerides Quantification Assay	DOCUMENT EP133	VERSION 1.0
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Goals:	Key Steps:	Other Required Materials:
Quantify triglycerides from Organ-Chip effluent	<ul style="list-style-type: none"> Prepare all reagents, samples, and standards 	<ul style="list-style-type: none"> Triglyceride Assay Kit (Abcam ab65336) Plate reader

1. Method

Sample type	Effluent See Protocol EP124 Effluent Sampling.
Recommended effluent dilution (Liver-Chip)	1:5 (at flow rate 30 μ L / h)
Run assay as described on vendor site	https://www.abcam.com/triglyceride-assay-kit-quantification-ab65336.html Use vendor fluorometric protocol for best results.
Recommended sample quantification calculation	$TG_{Net} = TG_{effluent} - TG_{treatment\ media}$ TG_{Net} = net effluent triglycerides (μ g / mL) $TG_{effluent}$ = triglycerides from effluent (μ g / mL) $TG_{treatment\ media}$ = triglycerides from treatment media (μ g / mL)

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