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Protocol for Emulate Organ-Chips:
Aspartate Transaminase (AST) Assay

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EP147 v1.0

TITLE Aspartate Transaminase (AST) Assay	DOCUMENT EP147	VERSION 1.0
	DATE 08-APR-2019	PAGE 2 OF 2

Goals:	Key Steps:	Required Materials:
Quantify human aspartate transaminase (AST) from Liver-Chip effluent samples	<ul style="list-style-type: none"> Prepare all reagents, samples, and standards Run assay Read plate 	<ul style="list-style-type: none"> Human AST AlphaLISA® Detection Kit (Perkin Elmer AL3078HV) EnVision® Alpha Reader

1. Method

Sample type	Liver-Chip effluent See Protocol EP124 Effluent Sampling.
Recommended assay flow rate (Liver-Chip)	30 µL / h
Recommended effluent dilution (Liver-Chip)	No dilution: Samples are loaded neat. Note: Sample dilution may need to be adjusted further to accommodate for any experimental modifications by the user.
Run assay as described on supplier site	http://www.perkinelmer.com/product/alphalisa-ast-human-kit-100pts-al3078hv Note: Store kit immediately upon receipt in the dark at 4°C.
Sample concentration range (Liver-Chip)	500–20,000 pg / mL

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