



emulate

Protocol for Emulate Organ-Chips:

Hepcidin Quantification Assay

May 10, 2019

EP134 v1.0

TITLE Hepcidin Quantification Assay	DOCUMENT EP134	VERSION 1.0
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Goals:	Key Steps:	Other Required Materials:
Quantify hepcidin from Emulate Organ-Chip effluent	<ul style="list-style-type: none"> <li>Prepare all reagents, samples, and standards</li> <li>Run the assay</li> <li>Read the plate</li> </ul>	<ul style="list-style-type: none"> <li>Human Hepcidin Quantikine® ELISA Kit (R&amp;D Systems #DHP250)</li> </ul>

## Method

Sample type	Effluent See Emulate Effluent Sampling Protocol (EP124)
Recommended effluent dilution using the Emulate Liver-Chip as example	1:2 to 1:200 (at flow rate 30 µL / h) Note that hepcidin levels could change depending on cell injury status or based on donor-to-donor variability. Therefore, sample dilutions may need to be modified to accommodate different experimental conditions or cells from different donors.
Run assay as described on supplier site	<a href="https://www.rndsystems.com/products/human-hepcidin-quantikine-elisa-kit_dhp250">https://www.rndsystems.com/products/human-hepcidin-quantikine-elisa-kit_dhp250</a>

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