



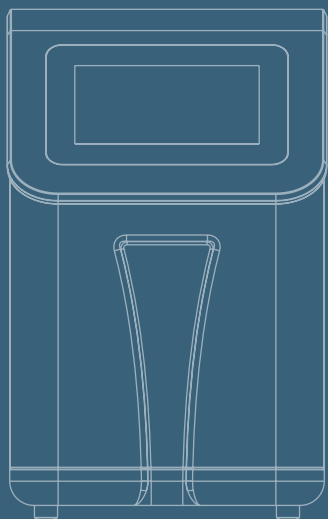
PhysioMimix®

CN-BIO

CONSUMABLES & KITS

Bioavailability assay kit: Human 18

Modernize your workflow with the only
in vitro bioavailability assessment tool
on the market



The PhysioMimix® Bioavailability assay kit: Human 18

Elevate your workflow with our all-in-one assay kit containing everything you need to recreate our human *in vitro* Gut/Liver-on-a-chip model and Bioavailability assay in your laboratory



Rapid Organ-on-a-chip adoption for scientists of all experience levels



Combine with *in silico* modeling to predict human-relevant ADME parameters



Instantly access tissue models and protocols, validated through years of industry collaboration



Simulate oral and intravenous drug dosing in a single experiment

Avoid unexpected results in the clinic by removing the limitations of traditional approaches

- **Modernize your workflow:** Eliminate the need for model/assay development and validation with our all-in-one kit
- **Assay kit output:** Gut and liver ADME estimations, plus oral bioavailability profiling via a fluidically linked multi-organ system
- **Enhanced study design:** Use the 18-replicate kit to explore and adapt parameters before *in vivo* animal studies, reducing the number of animals required.
- **Unique insights:** Complement *in vivo* studies with human *in vitro* data to flag potential interspecies differences and reduce reliance on animal models.
- **Validated primary human cells:** Recapitulate the microarchitecture of the liver and human intestine.
- **Proprietary media:** Co-culture validated primary cells (for individual and combined Gut/Liver culture) up to 72 hours.
- **Key metabolic enzyme expression:** In both gut and liver, including CYP3A, CYP2C.

How does our assay kit compare?

	Liver microsome / PHH suspension	Gut-Caco-2	Animal	PhysioMimix Bioavailability
Human	✓	✓	✗	✓
Human-relevant CYP activity	✓	✓	✗	✓
Intestinal absorption & hepatic clearance in one	✗	✗	✓	✓
Throughput	+++	+++	+	+++
High content	+	+	+++	++
Cost	\$	\$	\$\$\$	\$\$

What's in the assay kit?

PhysioMimix plates

Dual-organ (MPS-TL 6) plate - 3 plates
(18 replicates)

Media

Hepatocyte thawing media - 50 mL
Basal media (Liver A) - 110 mL
Basal media (Liver B) - 110 mL
Basal media (Gut/Liver) - 190mL

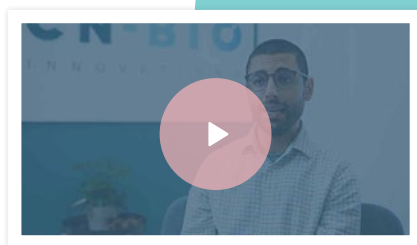
Primary human cells

LifeNetHealth LifeSciences - Primary
human hepatocytes - 1 vial
Altis Biosystems - RepliGut®- Planar
Jejunum kit - 1 x kit

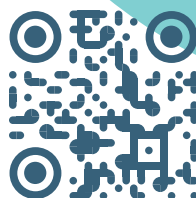
Supplements

Supplement I - 1 x 15 µL
Supplement II - 2 x 5 µL
Supplement III - 1 x 25 µL
Supplement IV - 1 x 80-100mg (powder)
Supplement V - 1 x 12 µL

Watch our video and
learn more about our
**PhysioMimix® Bioavailability
assay kit: Human 18**



Contact us if you
require specific donor
characteristics or
pooled donors



cn-bio.com/bio-kit

Resources hub

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