

LIVERACE™ COMBO · PRODUCT OVERVIEW

Multi-Omic. Single Well.

Two biomarkers. One reaction well. miR-122 + CK-18 detected simultaneously for complete early-to-confirmed DILI profiling across preclinical and clinical studies.



LiverAce™ COMBO

COMPLETE DILI PANEL — MIR-122 & CK-18

Dual Biomarker

Multi-Omics

Cross-Species

- **Two biomarkers. One well. One platform.** miR-122 captures early hepatocellular stress while CK-18 confirms apoptotic injury — simultaneous dual detection from a single 25 μ L sample, no multiplexing complexity.
- **Multi-omic DILI profiling.** Comprehensive assessment combining miRNA and protein biomarkers in a single reaction — delivering the complete injury picture that PCR-free chemistry uniquely enables.
- **FDA & EMA endorsed biomarkers.** Both miR-122 and CK-18 qualified via the IMI TransBioLine Consortium — the only PCR-free dual assay aligned with these regulatory scientific findings.

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PRODUCT For Pharma & CROs

LiverAce™ COMBO

Multi-Omic. Single Well.

For comprehensive DILI monitoring, LiverAce™ COMBO detects miR-122 and CK-18 simultaneously in a single well — miR-122 for early hepatocellular stress and CK-18 for confirmed apoptotic injury. The **multi-omic approach** delivers complete DILI profiling in one assay.



THE CHALLENGE · LIVER TOXICITY IN DRUG DEVELOPMENT

\$3B

AVG. COST PER APPROVED DRUG

#1

CAUSE OF DRUG WITHDRAWAL

750+

DRUGS LINKED TO DILI

10M+

PATIENTS AFFECTED/YEAR

KEY FEATURES

Dual Biomarker
miR-122 + CK-18 in one reaction well

Multi-Omics
miRNA + protein biomarkers in one assay

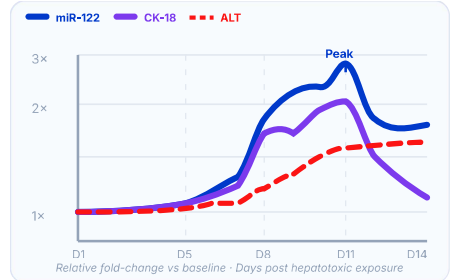
Early + Confirmed
Onset detection & injury confirmation

25 µL Sample
Minimal blood volume for animal models

Luminex Ready
No capital investment needed

Cross-Species
Preclinical → Clinical

BIOMARKER DETECTION



REGULATORY VALIDATION

- ✓ FDA Letter of Support for miR-122 — IMI TransBioLine Consortium research
- ✓ miR-122 & CK-18 endorsed by EMA & FDA — qualified via IMI TransBioLine
- ✓ Only commercial single-well PCR-free dual assay matching consortium scientific findings

COMPLETE DRUG DEVELOPMENT PROCESS — ONE ASSAY

