

LB-SeleCTEV™ EGFR

Exosome-based liquid biopsy solution containing both pre-analytical and analytical modules, for the detection of EGFR mutations.



Technical Specifications

Category	Quantitative Real-Time-based PCR assay
Format	24 tests
Features	<ul style="list-style-type: none"> • 1-2 ml of plasma as starting sample volume • 85 EGFR mutations detectable • Sensitivity down to 0,5% allelic frequency
Indications	<ul style="list-style-type: none"> • Recurrence monitoring • Resistance monitoring
Workflow	<ul style="list-style-type: none"> • Optimized pre-analytical and analytical steps: from blood to result
Intended Use	<ul style="list-style-type: none"> • CE-IVD in Europe • RUO in the USA and rest of the world

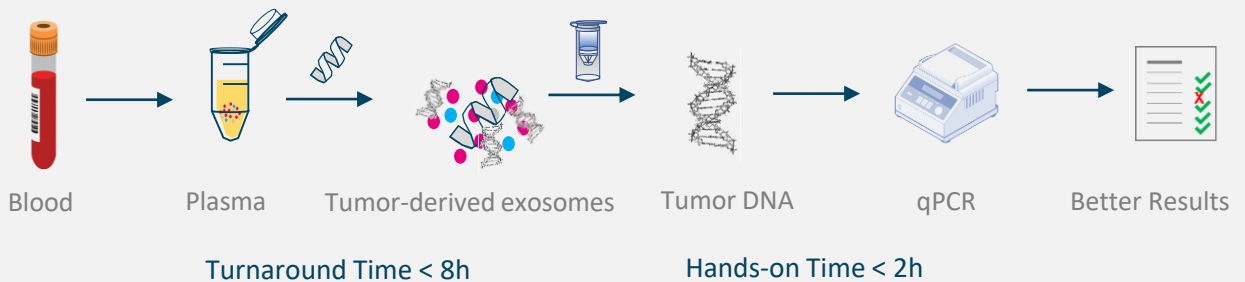
Optimized End-to-End Workflow

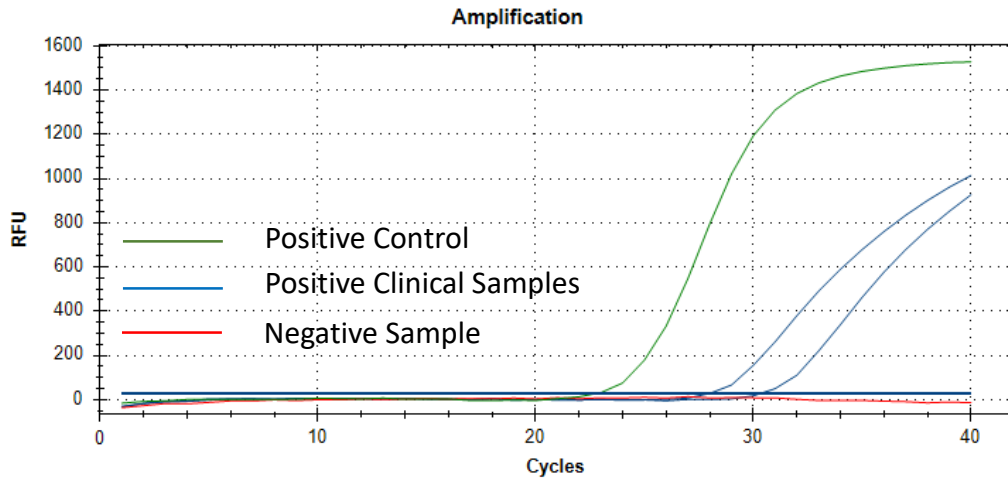
1. Plasma Extraction
Benchtop Centrifugation

2. Tumor exosome isolation
Proprietary Peptide Affinity Method

3. DNA extraction
Optimized for Exosomes

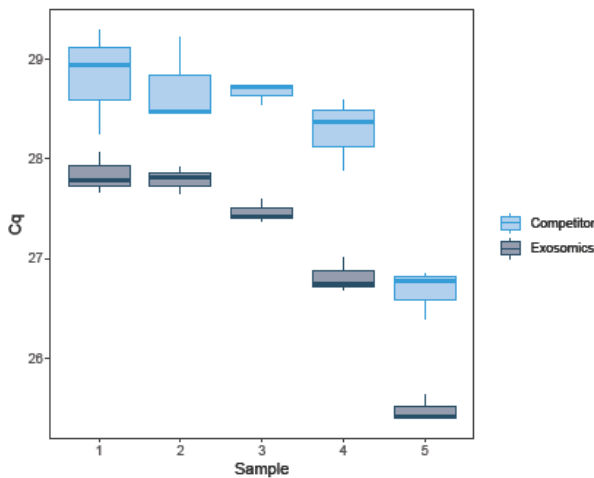
4. Real-time PCR
Highly Sensitive RT-qPCR





1. Typical amplification plot of EGFR mutation positive samples from cancer patients.

Example of Real-Time Quantitative PCR amplification plots: in green a positive control (synthetic DNA sequence with mutation), in blue two clinical samples positive for the mutation, in red a clinical sample negative for the mutation.



- ✓ **CFX96** - Bio-Rad (software v. 3.1)
- ✓ **ABI 7300**- Applied Biosystems (software v. 1.4.1)
- ✓ **ABI 7500, 7500 Fast**- Applied Biosystems (software v. 2.0.5)
- ✓ **Stratagene Mx3000P, Mx3005P** - Agilent Technologies (software v. 4.10 - Build 389)
- ✓ **Rotor-Gene Q** - Qiagen (software v. 1.7 - Build 87)
- ✓ **Rotor-Gene 6000** - Corbett (software v. 1.7 - Build 87)

2. LB-SeleCTEV EGFR outperforms the gold standard competitor.

Five EGFR mutation positive samples were processed and analyzed with LB-SeleCTEV EGFR and with the gold standard competitor. LB-SeleCTEV™ EGFR allows to detect the mutation ~ 1.5 Cq earlier than the competitor - dark blue boxplots are lower than the light blue ones - with lower variability between replicates – dark blue boxplots are thinner than the light blue ones.

3. LB-SeleCTEV EGFR is compatible a wide range of Real-Time PCR instruments.

LB-SeleCTEV™ EGFR CE-IVD kit has been validated with Bio-Rad CFX96.

LB-SeleCTEV™ EGFR RUO kit has been tested with several of the most popular Real-Time PCR instruments on the market for greater versatility.

Cat. Number	Assay version	Intended Use
LB-SEL-EGFR-CE	LB SeleCTEV™ EGFR Mutation Analysis (CE-IVD)	Europe
LB-SEL-EGFR-RUO	LB SeleCTEV™ EGFR Mutation Analysis (RUO)	USA & Rest of the world

For technical support, contact us at support@exosomics.eu