

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

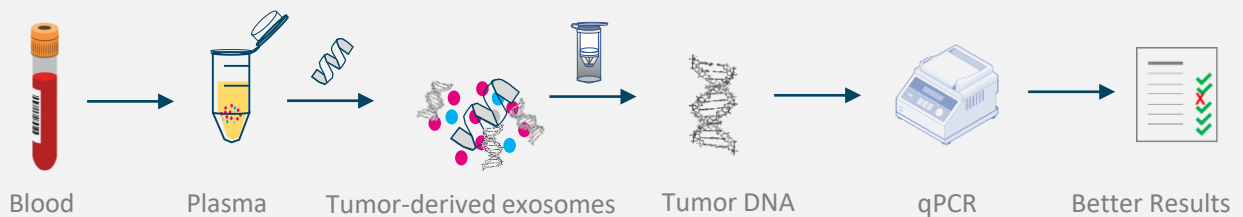
### Optimized End-to-End Workflow

1. Plasma Extraction  
Benchtop Centrifugation

2. Tumor exosome isolation  
Proprietary Peptide Affinity Method

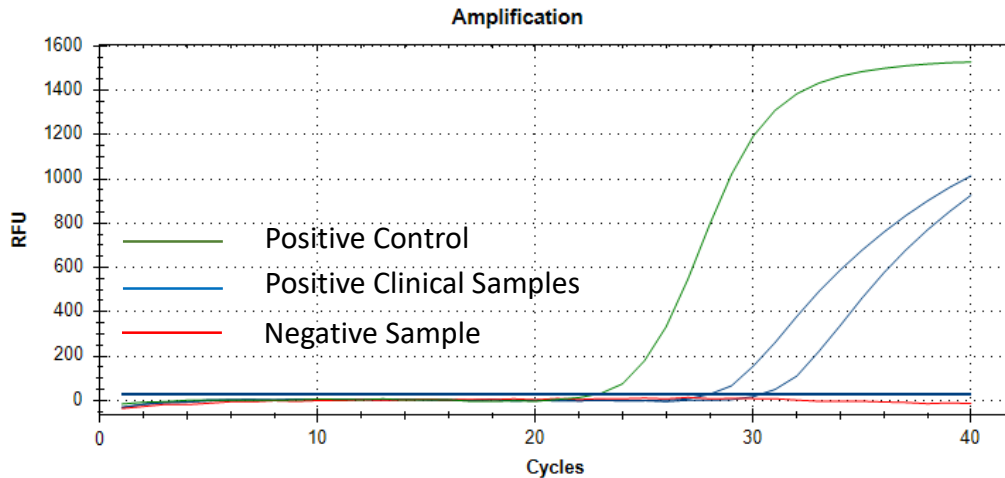
3. DNA extraction  
Optimized for Exosomes

4. Real-time PCR  
Highly Sensitive RT-qPCR



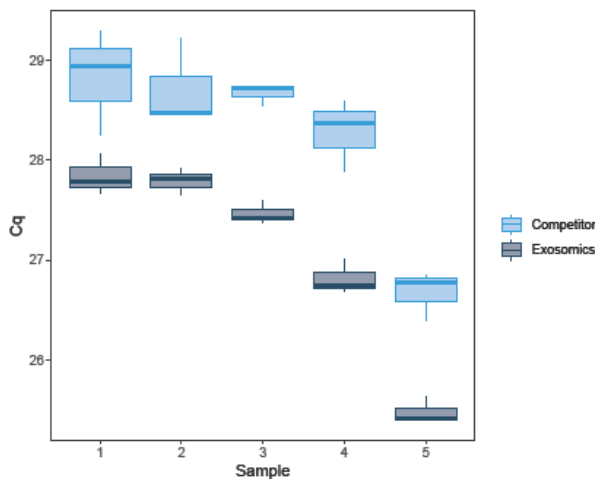
Turnaround Time < 8h

Hands-on Time < 2h



### 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.



### 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.

- ✓ **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)

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

LB-SeleCTEV™ EGFR CE-IVD kit has been validated with BioRad 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