

Procedure standard di pre-analitica

MOLECULAR DIAGNOSTIC REPORT FOR LIQUID BIOPSY (LB)

Name of the healthcare institution: XXX

Location: City and address: XXX

Contact information: XXX

Laboratory certifications or accreditations:XXX

} Section 1

Patient ID: XXX	Sample ID: 025-001	Collection date: 20/01/2025
Patient name: XXX	Primary tumor type and clinical stage: Breast cancer ER+/HER2-; Stage IV	blood collection time: 10.30 AM
Date of Birth: XXX	Sample type: peripheral blood. Starting volume of peripheral blood: total amount of entire blood before processing samples: 10 ml; Type of blood collection tube: EOTA	receipting time: 10:42 AM
Sex: XXX	Total volume of plasma: 4 ml; storage conditions: XXX;	Ordering Physician: XXX
	CfDNA concentration: 5 ng/μl); Tumor Fraction (TF): XXX	Hemolysis fraction: XX

} Section 2

Test requested: mutational analysis of the *ESR1* gene

Clinical context and Clinically relevant data: The patient was first diagnosed with ER+/HER2- breast cancer. She received adjuvant endocrine therapy and, after disease progression, was treated with aromatase and CDK4/6 inhibitors. After further disease progression (metastatic lung nodules), plasma analysis for ESR1 variants was requested to aid clinical decision-making.

} Section 3

Method of molecular analysis: c/DNA/RNA purification protocol; manual and/or platform integrated automatized assays; molecular analysis was carried out using NGS technology; Sequencer: XXX; gene panel: XXX

} Section 4