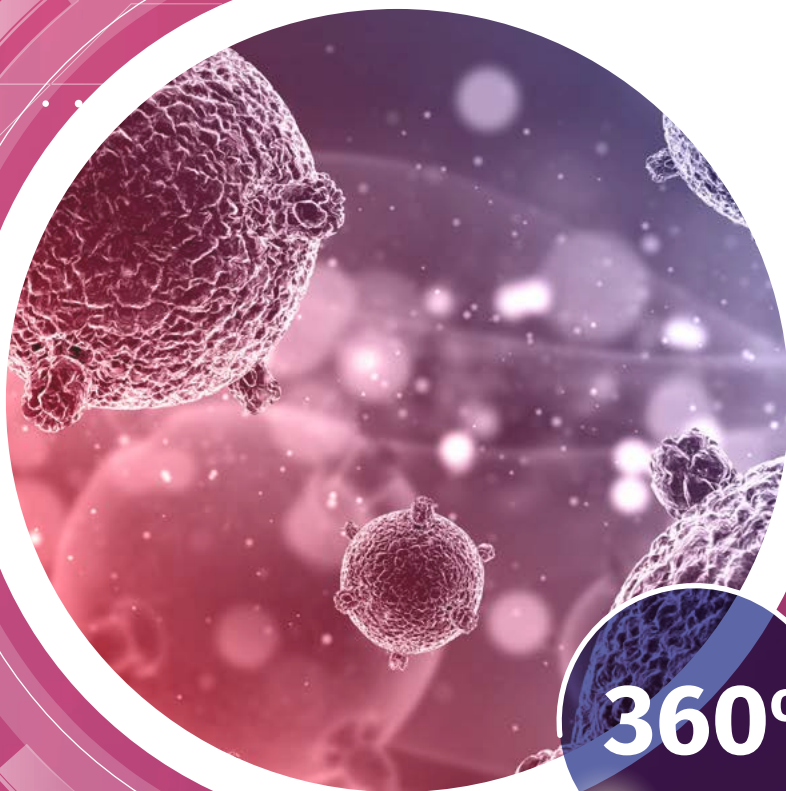


INTEGRAL SOLUTIONS IN **ANATOMICAL PATHOLOGY**



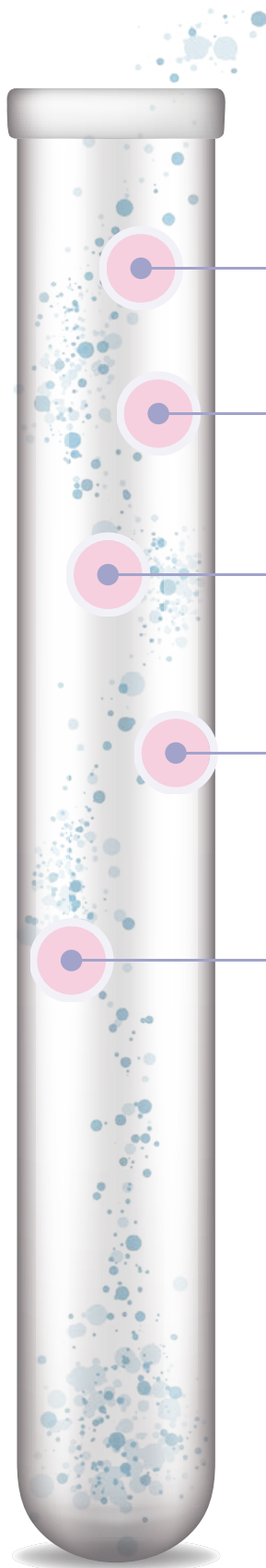
360°



Specialties
Clinical Diagnostics

1

Dimension and experience



#1 supplier

of medical diagnostic services

High quality

diagnostics

A national network

of +50 pathologists

Over **540,000** cervical screenings
and more than **300,000** biopsies
every year

Collaborations in various research
projects/clinical trials and active
teaching partners at University Hospitals
and in technician training programmes

The Anatomical Pathology unit of Eurofins is a leader in the development and transformation of diagnostics for efficient and high quality care



STRATEGIC LOCATION

Eurofins has two large central laboratories located in Madrid and Barcelona and a support laboratory in the Canary Islands.



THE LARGEST NETWORK OF SPECIALISTS NATIONWIDE

It ranks among the organisations with the largest number of specialists in Spain. A team of **over 50 pathologists** of recognised standing and prestige in the Iberian Peninsula.

Thanks to the combination of its human resources, its **level of specialisation** is unmatched by any other network of laboratories.



INTEGRATING CARE

The pathologists at Eurofins provide assistance to the **tumour committees** of the different centres they partner with, offering their expertise in comprehensive cancer treatment planning and recommending the best options for each case.



DIGITAL PATHOLOGY

Digital pathology and Artificial Intelligence are well established tools used on a daily basis at Eurofins. Thanks to this, we are able to **optimise resources, reduce response times** and provide **better care**.



IMPROVED RESPONSE TIMES

At Eurofins the response time is a crucial and decisive factor in this speciality; the essential surgical, diagnostic and treatment solutions for each patient often depend on it. It is therefore part of our **commitment**.



COMMITMENT TO QUALITY

Our aim is to offer the **best clinical laboratory diagnostics** with the highest technical and professional quality. To this end, all our laboratories are accredited and certified for compliance with ISO 9001, ISO 17025 and/or ISO 15189 standards, and they are also characterised by the high qualifications of all professionals that are part of the network.

All Eurofins laboratories have the appropriate Administrative Authorisation for Installation and Operation issued by the Health Departments of the corresponding Governments of the Autonomous Communities.

A | SURGICAL PATHOLOGY

- ## B | CLINICAL CYTOLOGY

C | IMMUNOHISTOCHEMISTRY AND IMMUNOCYTOCHEMISTRY

CINtec™ PLUS significantly reduces additional testing and extensive follow-up for women with non-progressive HPV infections, which entail high medical costs.

D | HPV SCREENING

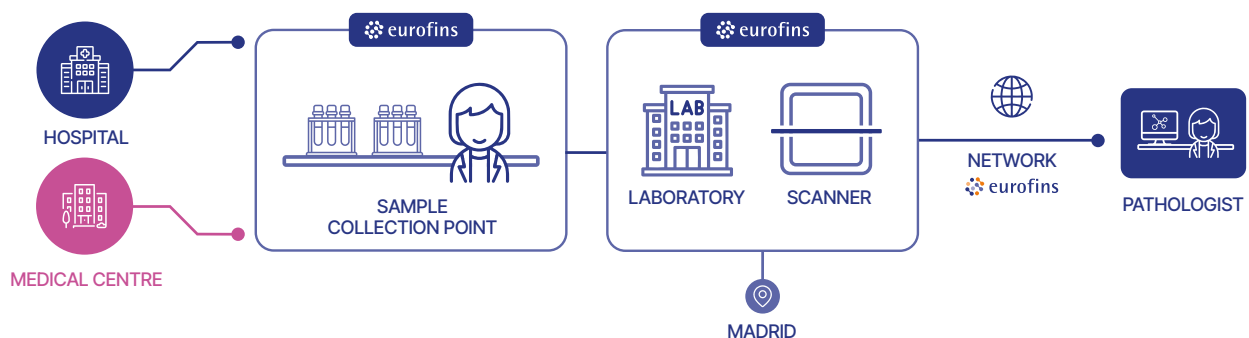
Qualitative determination of DNA of 14 HPV types (species), with outstanding oncogenic capacity (high-risk HPVs), of which 12 are carcinogenic (HPV 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58 and 59) and 2 probable/possible carcinogenic (HPV 68 and 66), according to the IARC. Of these, special attention is paid to HPV16 and HPV18, because of their remarkable oncogenic capacity (and extensive cytotropism).

The test is based on specific PCR amplification of a polymorphic region of the L1 viral gene, performed in three separate reactions, for HPV16, HPV18 and high-risk HPVs (of the remaining 12 genotypes, without distinguishing them: 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66 and 68).

Digital pathology

Eurofins which is always at the forefront of innovation, **has established a global pathology network that enables:**

- ✓ **OPTIMISING** workflows in our laboratories by ensuring the traceability of samples.
- ✓ **CONNECTING** the knowledge of our team of pathologists by directing each case to the most expert pathologist in the area.
- ✓ **BALANCING** workloads to shorten response times.
- ✓ **REMOTE ASSISTANCE** for healthcare activities and interdisciplinary committees.
- ✓ **CONSULTING** cases with international experts.



Molecular pathology

At Eurofins, our Molecular Pathology Unit combines the expertise of specialist, clinical consultants, molecular biologists and cytogeneticists, as well as dedicated technical staff, to offer advanced diagnostic solutions for rare, infectious and oncological diseases, ensuring accurate results and optimal delivery times.

At Eurofins, the molecular pathology laboratory is integrated into Anatomical Pathology, in order to provide a complete diagnosis geared towards personalised and precision medicine



Molecular pathology in oncology

At Eurofins, **we have units specialising in molecular oncology:**

- Solid tumour oncology
- Oncohematology
- Hereditary cancer syndromes

Thanks to the wide range of technological resources and techniques available (FISH, PCR, NGS, MLPA, etc.), together with in-house expertise, we have a portfolio of **over 150 molecular analyses** that can consist of specific approaches limited to a few targets or very broad studies, **both in tumours and in liquid biopsies**. This portfolio is structured by tumour origin and based on national and international guidelines.

Information from molecular pathology tests allows us to translate the knowledge of the molecular mechanisms involved in the evolution of the disease into clinical practice.

Eurofins makes the results of these tests available as a single integrated report for an accurate diagnosis and to guide the physician in the personalised treatment of the patient.

As a complement to its portfolio of services, Eurofins also provides:

- Liquid biopsies (*EGFR, ALK, KRAS, MET, PIK3CA, BRAF, NRAS*)
- Gene signatures for breast cancer prognosis and management.

PRECISION MEDICINE IN BREAST CANCER

Oncotype Dx and Prosigna

Gene signatures for breast cancer prognosis and management.

● **EndoPredict**

Genomic test with level of evidence 1B that combines the expression of 12 tumour genes with clinical parameters (tumour size and lymph node involvement) to provide an integrated risk index (EPclin) for 10- and 15-year recurrence in women with early HR+ HER2- breast cancer.

Compared to other tests, EndoPredict provides a clear bimodal classification (high or low risk) and **allows us to predict the need for chemotherapy** as well as the possible safe omission of extended endocrine therapy. It can be performed on paraffin-embedded tissue, with decentralised testing, fast results and high applicability in clinical practice.

● **MammaPrint**

Genomic test that analyses the expression of 70 genes involved in the metastatic cascade of early breast cancer. It allows the risk of recurrence to be classified as high or low regardless of factors such as age, hormonal status, HER2 or tumour size.

It provides both **prognostic** and **predictive** value in node-negative and node-positive patients (up to 3), and is the **only gene signature with level of evidence 1A (MINDACT)** that supports its usefulness in avoiding unnecessary chemotherapy.

It is the only FDA-approved test on fresh and paraffin-embedded tissue for all ages and hormone receptor types, with dichotomous results that avoid grey areas in clinical decision-making.

● Oncotype Dx

It is a genomic test that studies the individual biology of the breast tumour by examining the expression of 21 genes in order to **direct the treatment protocol** and the probability of recurrence 10 years after the initial diagnosis.

● Prosigna

It is a PAM50 gene signature assay which analyses the expression of 50 key genes in tumour tissue; thus helping to estimate the **risk of recurrence of the disease** (ROR), and the intrinsic subtype specific to each patient.

It lets the tumour be classified into one of 4 intrinsic subtypes:



It is worth pointing out that the **Prosigna** test is the only standardised method for identifying intrinsic molecular subtypes of breast cancer, which allows for a **more accurate assessment** of tumour gene expression patterns and directly affects breast cancer **treatment methodology and outcome**.

TEST	Oncotype DX	Prosigna	MammaPrint	EndoPredict
Sample type	Formalin-Fixed Paraffin-Embedded (FFPE) tissue	Formalin-Fixed Paraffin-Embedded (FFPE) tissue	Fresh or paraffin-embedded tissue	Formalin-Fixed Paraffin-Embedded (FFPE) tissue
Genes analysed	21	50 (PAM50)	70	12 (8 target + 3 reference + 1 control)
Risk classification	Low / Intermediate / High	Low / Intermediate / High	Low / High	Low / High
Prognostic value	Yes	Yes	Yes	Yes
Predictive value for chemotherapy	Yes	No	Yes	Yes
Predictive value for endocrine therapy	No	No	Under evaluation	Yes
Clinical validity	Prospective studies	Clinically validated	Level 1A (MINDACT)	Level 1B (ABCSG/GEICAM)
Distinctive advantage	Includes intermediate risk group with additional RS analysis	Identifies molecular subtypes (LumA, LumB, etc.)	Avoids chemotherapy in node-positive patients	Includes clinical factors for calculating EPclin risk Score



Prosigna is a CE-IVD-marked test and is internationally recommended by US (ASCO), European (ESMO) and Spanish (SEOM) guidelines

Response times

At Eurofins, we are aware of the importance of being able to respond rapidly. For this reason, we work on our case management and conduct efficiency measurements with the goal of constantly improving both.

Diagnostic biopsies	4 days
Intraoperative biopsies	48h notice required
Muscle biopsies	15 days
Surgical parts	5 days
Gynaecologic cytology	3 days
Non-gynaecologic cytology	2 days
Fine needle aspiration cytology	Appointments are required so that our experts may be on site to check the sufficiency of the samples obtained by the radiologist
Extremely urgent cases	In cases that are justifiably urgent and after discussion with the laboratory management, cytologies of any type and small biopsies may be reported within 24 hours
Molecular pathology	5-20 days (according to technique)

Comprehensive
Anatomic
Pathology
service



An Anatomical and Molecular Pathology service capable of meeting all diagnostic, treatment and follow-up needs of patients



Kaukalink

Kaukalink is the tool for viewing and downloading reports issued by the laboratory, regardless of whether they are final, provisional or complementary reports.

Our customers are provided with a user manual describing all functionalities of the platform, including:

- Viewing and downloading case results
- Configuring notification settings and user preferences
- Filter to search the list of all cases



Each record is a pending result or process

Urgent

Bulk download of pending reports

Individual report download

Malignant

PACIENTE	CATEGORÍA PRUEBA	PRUEBA SOLICITADA	REFERENCIA PETICIÓN	ESTADO PETICIÓN	FECHA RECEPCIÓN	FECHA PETICIÓN	
Pepa Sol	Histología	Biopsia (1 envase)	2201131274160292	VISUALIZADO	-	13-01-2022	
Pepa Sol	Histología	Biopsia (1 envase)	2201131274160291	PTE. REDEPCIONAR	-	13-01-2022	
Daniel Badia Pey	Histología	Biopsia (1 envase)	2201131274160257	PTE. REDEPCIONAR	-	13-01-2022	
Pepa Sol	Histología	Biopsia (1 envase)	2201111274160073	VISUALIZADO	11-01-2022	11-01-2022	
Pepa Sol	Histología	Biopsia compleja (> 1 envase)	2201111274160066	VISUALIZADO	11-01-2022	11-01-2022	
António Estorach	Histología	Biopsia compleja (> 1 envase)	2201111274160053	VISUALIZADO	-	11-01-2022	
Daniel Badia Pey	Histología	Biopsia (1 envase)	2201111274160035	VISUALIZADO	-	11-01-2022	
Daniel Badia Pey	Histología	Biopsia (1 envase)	2201111274160004	VISUALIZADO	-	11-01-2022	
Carmen López	Histología	Biopsia (1 envase)	210104000	PTE. REDEPCIONAR	-	04-01-2022	

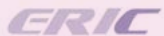
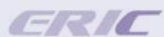
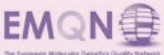
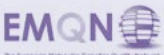
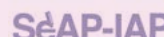
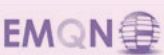
Areas of specialisation

- | | | |
|-------------------------------|----------------------------|----------------------------------|
| 6 Cytopathology | 2 Hepatobiliary-pancreatic | 2 Bone and soft tissue pathology |
| 4 Dermatopathology | 2 Nephropathology | 2 Perinatal pathology |
| 3 Gastrointestinal | 3 Neuropathology | 3 Pulmonary pathology |
| 5 Gynaecopathology and breast | 1 Neuromuscular pathology | 5 Uropathology |
| 3 Haematopathology | 4 Molecular pathology | |

Quality, certificates and accreditations

EXTERNAL QUALITY CONTROL



Classical cytogenetics	  Sociedad Española de Hematología y Hemoterapia
Array	
FISH	 Sociedad Española de Hematología y Hemoterapia 
Sanger sequencing	 
Triplet repeat expansions / MLPA fragment analysis	  
MLPA	 
RT-PCR	 
NGS	  
Preimplantation Genetic Testing (PGT)	
Mass ARRAY	  

CERTIFICATIONS & ACCREDITATIONS

- ISO 15189 accreditation



- ISO 9001:2015 certification



- ISO 17025 accreditation



- ISO 14001:2015 certification for Environmental Management Systems





eurofins

Specialties
Clinical Diagnostics

Customer.Service@CTES.eurofinseu.com

