

EG BIOMED
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EG BIOMED

Leading Experts in Cancer Detection Technology

cfDNA Blood Testing

EG BIOMED

About EG BIOMED

COMPANY OVERVIEW

EG BioMed CO., LTD. was established in March 2022 as a spin-off company from Taipei Medical University (TMU), a Global Top 250 university in Clinical and Health. We are dedicated to the development of cancer nucleic acid methylation blood testing services and products.
Our technology has been successfully applied to various cancers, including breast cancer, pancreatic cancer, lung cancer, and colorectal cancer, with ongoing expansion into additional cancer screening services.

In 2025, our U.S.-based laboratory, EG BioMed US Inc., successfully obtained CLIA certification, marking a significant milestone in our global expansion. This certification enables us to bring precision medicine and advanced cfDNA-based cancer monitoring technologies to a broader international market.

2018-2022

Team Formation, Focused on Cancer Precision Detection Technology R&D

Technological Breakthroughs and Patent Applications

- Successfully Developed Blood Methylation Detection Technologies for Pancreatic, Lung, Colorectal, and Breast Cancers
- Core Technologies Patented in the United States, European Union, Singapore, Taiwan, and Multiple Countries
- Awarded FutureTech Award and National Innovation Award, Gaining International Recognition

Established EG BioMed Inc., with Technologies Officially Licensed from Taipei Medical University

2023-2024

Global Positioning and Technological Innovation, Advancing into International Markets

Technological Expansion and Patent Applications

- EG Clinical Laboratory Achieves ISO15189 TAF Certification, Leading Taiwan's Precision MedicineBreast Cancer Methylation Detection
- Breast Cancer Methylation Detection Technology Patented in the United States, Malaysia, China, and Japan
- U.S. Subsidiary EG BioMed US Inc. Established, with CLIA Certified Laboratory in Seattle, Officially Entering the International Market

2025-Now

CLIA Certified Laboratory, Cancer Detection Technologies with International Patents

International Certifications and Patent Milestones

- U.S. Laboratory Obtained CLIA Certification
- Breast Cancer Blood Test Patented in the United States and Singapore
- Pancreatic Cancer Blood Test Patented in the United States

Detection process

1 Appointment for testing

Schedule a test appointment with partner medical institutions.

2 Collecting specimens

Collect blood samples and send them to the laboratory.

3 Detection analysis

Perform automated qPCR testing and analysis.

4 Interpretation of report

Patients return to the medical institution for a report consultation with a physician.

Advantages of Testing

- **Unrestricted timing:**
  There are many options for choosing the testing time, and blood can be collected for testing at any time, day or night.
- **Not required to fast:**
  Maintain regular eating habits and collect blood samples for testing during the open hours of the testing center without the need to fast.
- **Safe and comfortable:**
  Reduce radiation exposure and avoid discomfort caused by prolonged testing by conducting the examination through a blood test.
- **Precision and professionalism:**
  The testing process is analyzed using fully automated equipment, and the results are explained by professional physicians at contracted clinics.
- **Innovative patent:**
  Obtained a patent from the Republic of China and collaborated with medical centers.

Testing Applications



Clinical cancer monitoring for high-risk populations, enabling early intervention and treatment follow-up.



Collaboration with biotech companies and medical institutions for new drug development and treatment monitoring.

Multiple Cancer Monitoring



Breast Cancer



Colorectal Cancer



Lung Cancer



Pancreatic Cancer

Test Report

Detailed Test Results

EG Clinical Laboratory

EG Clinical Laboratory

Test Results

Test Item	Test Result	Biological Reference Range
Pancreatic Cancer Blood Test Report EG-Pancreatic Blood Test		Negative (-)

Z Test value (Cp)

Test Criteria

- The sample is determined as "Positive" if it meets the following condition: At least one reaction of the Z gene test has a Cp value < 38.0.
- If the sample does not meet the criteria for a positive result, it is determined as "Negative."

Remark

The test results are provided solely based on the requested items.
This laboratory does not provide interpretations regarding clinical significance.

Report Authorization

Reviewed by Medical Technologist	Issued by Medical Technologist	person in charge	Doctor of Philosophy

Laboratory Code:

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Explanation of Methylation Testing Principles

Principle of Circulating Tumor DNA Methylation Testing

Circulating Tumor DNA (ctDNA) and Methylation Detection

Tumors release fragments of DNA from dying cells during metabolic processes, known as circulating tumor DNA (ctDNA). ctDNA carries tumor cell characteristics, such as methylation modifications. By analyzing the methylation levels of specific genes in ctDNA from blood samples, we can assess the presence of cancer cells in the body.

Technical Process and Key Steps

Extraction of Free DNA from Blood

A highly stable free DNA extraction technique is used to isolate high-purity DNA from blood for subsequent analysis.

Bisulfite Conversion

Bisulfite conversion changes unmethylated cytosine (C) into uracil (U), which will be converted to thymine (T) during PCR amplification. Methylated cytosines remain unchanged.

Methylation-Specific Polymerase Chain Reaction (PCR)

Specific primers and probes are designed for DNA molecules after bisulfite conversion. PCR technology is then used to amplify and analyze the methylation levels of specific genes.

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Test Interpretation & Recommended Actions

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Explanation of Test Results and Recommended Actions

Negative Result

Your test result is **negative**, **indicating that no cancer-related gene methylation changes were detected at this time.**

Recommendations

- Maintain a healthy lifestyle and undergo regular health checkups.
- If you have a family history of cancer or belong to a high-risk group, follow your doctor' s advice for regular screenings.

Positive Result

Your test result is **positive**, **indicating that cancer-related gene methylation changes were detected.**

Recommendations

- Consult a specialist as soon as possible to arrange further examinations (such as ultrasound or CT scans) or additional tests to confirm the situation.
- Based on the results of further examinations, your doctor will provide appropriate recommendations or treatment plans.

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Cancer Care & Education

How to Prevent Pancreatic Cancer?

The early symptoms of pancreatic cancer are not obvious, and it is often detected only in the middle or late stages.
By adopting healthy lifestyle habits and undergoing regular check-ups, we can effectively reduce the risk of pancreatic cancer and safeguard a healthy life.

Quit Smoking

Smoking is a major risk factor for pancreatic cancer. Quitting smoking can significantly reduce the risk of developing pancreatic cancer. Start protecting your health today!

Maintain a Healthy Weight

Obesity is closely related to pancreatic cancer. Regular exercise and a healthy diet can help maintain an ideal weight and effectively lower the risk.

Healthy Diet

A high-fiber, low-fat diet can help protect pancreatic health.
Consume more vegetables and fruits while avoiding excessive red meat and processed foods.

Limit Alcohol Consumption

Long-term or excessive drinking increases the risk of chronic pancreatitis, which in turn raises the risk of pancreatic cancer. Moderate drinking or avoiding alcohol is key to protecting your health!

Control Diabetes

Diabetes is associated with pancreatic cancer. Strict blood sugar control and maintaining stable health may help reduce the risk of cancer.

Regular Exercise

Exercising regularly not only helps control weight but also boosts immunity, reducing the risk of chronic diseases and cancer.

Regular Health Check-Ups

- For high-risk groups (such as those with a family history), regular screenings are particularly important.
- Screening tests may include abdominal ultrasound, CT scans, or blood tests to detect abnormalities early and allow for timely treatment.

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Publication of early diagnosis, treatment effectiveness, and prognosis follow-up of breast cancer and lung cancer in a journal

- Hypermethylation of CCND2 in Lung and Breast Cancer Is a Potential Biomarker and Drug Target. International Journal of Molecular Sciences 2018(19):1-17.
- Automatic Detection of the Circulating Cell-Free Methylated DNA Pattern of GCM2, ITPRIPL1 and CCDC181 for Detection of Early Breast Cancer and Surgical Treatment Response. Cancers 2021(13):1375.
- Hypermethylation of TMEM240 predicts poor hormone therapy response and disease progression in breast cancer. Molecular Medicine 2022(28):67.

Publication of early detection and medication effectiveness follow-up of colorectal cancer in a journal

- Hypermethylation and Decreased Expression of TMEM240 Are Potential Early-Onset Biomarkers for Colorectal Cancer Detection, Poor Prognosis, and Early Recurrence Prediction. Clinical Epigenetics 2020 12(1):67.

Global Presence

EG Clinical Laboratory specializes in early cancer detection, offering industry-leading nucleic acid methylation blood test technology. Through our qPCR automated analysis system, our tests provide highly accurate results, assisting patients in early cancer detection, monitoring treatment responses, and predicting relapse risks.

ISO15189 Certified Laboratory in Taiwan

EG Clinical Laboratory is TAF certified, serving the Taiwan market with the most advanced cancer detection solutions.

CLIA Certified Laboratory in the U.S.

EG BioMed US Inc., located in Seattle, focuses on the global promotion of precision medicine, offering CLIA laboratory services.

CLIA Laboratory Overview

EG BioMed US Inc., based in Seattle, received CLIA certification in 2025 as a professional laboratory dedicated to advancing the global application of precision medicine. We not only provide high-standard cancer nucleic acid methylation blood tests but also support biotech companies and startups in accelerating their U.S. market entry through CLIA laboratory services.

OUR SERVICES

- **CLIA Laboratory –** Providing a compliant clinical testing environment to help startups quickly launch testing projects
- **Precision Medicine Technology Partnerships –** Collaborating with medical institutions, pharmaceutical companies, and research teams to drive personalized medicine applications
- **International Market Support –** Offering regulatory compliance, test technology transfer, and business expansion strategies to assist companies entering the U.S. market
- **EG BioMed US Inc. Clinical Laboratory Quality Control Team –** EG BioMed US Inc. Clinical Laboratory Quality Control Team specializes in CLIA/CAP, ISO15189, and TFDA precision medical certifications. With extensive experience, the team has helped establish and manage certified labs for multiple international biotech companies.

  Team members, including senior clinical professionals and CAP-certified directors, have set up over 12 CLIA/CAP labs globally and participated in numerous evaluations.



Through EG BioMed US Inc., we provide high-quality clinical testing technology and collaborate with global partners to shape the future of precision medicine!

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Expert Consultation

Official Website

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EG Clinical Laboratory provides technical testing services and test results only.
For clinical interpretation or medical inquiries, please consult a qualified physician.