

Biomarker panel for early diagnosis of endometrial cancer

About the invention

The subject of the offer is a set of biomarkers including oestradiol, 2-methoxyoestradiol and hydrogen peroxide, together with a method for their use in non-invasive in vitro diagnosis of endometrial cancer.

The solution is based on the simultaneous assessment of oestrogen metabolites and oxidative stress markers in blood plasma, which allows for the identification of characteristic biochemical changes accompanying the development of endometrial cancer. The use of a biomarker panel increases diagnostic sensitivity and specificity compared to single assays.

The technology can be used as a screening test for early detection of the disease, as well as a tool to support the monitoring of patients during and after treatment, providing a non-invasive alternative to used diagnostic methods.

IP protection

The invention is protected by a patent application filed with the Polish Patent Office under number P.450034 and with the EPO under number EP25208945.3.

Technology readiness level

TRL 4 - Technology validated in laboratory conditions

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Applications

- Treatment of acute and chronic wounds,
- Post-radiotherapy skin regeneration,
- Dermatological and dermocosmetic products.

Possible cooperation

- Technology licensing,
- Joint R&D and formulation development,
- Preclinical studies and implementation.