

Pregnancy loss

Devyser Extend v2

Discover the advantages

- No tissue culture needed
- No misdiagnosis due to maternal contamination and cell overgrowth
- Proven QF-PCR technology
- Cost-effective solution with less hands-on time required
- Built-in ID marker enables cross-mix sample identity confirmation
- Forty-two STR markers for analysis of chromosomes 13, 15, 16, 18, 21, 22, X and Y

Early pregnancy losses affect up to 15% of clinically recognized pregnancies. Many factors can cause embryo loss, but it is well recognized that a majority of early spontaneous abortions result from chromosomal abnormalities and that up to 96% of these are numerical chromosome abnormalities. The most frequently observed numerical chromosomal abnormalities involve chromosomes 13, 15, 16, 18, 21, 22 and X. Women who have undergone one or more spontaneous abortions caused by chromosomal abnormalities are at increased risk for chromosomal abnormalities in future pregnancies. Cytogenetic studies of miscarriages are highly recommended even in the case of the first spontaneous abortion. Identification of the possible cause of fetal loss significantly reduces long-term psychological distress in women with a miscarriage and enables improved genetic counseling for couples in future pregnancies.

Devyser Extend uses QF-PCR technology

Conventional cytogenetic studies (karyotyping or FISH) are expensive and need a long period of time to obtain results. Moreover, they result in high rates of culture failure, misdiagnosis due to maternal contamination and cell overgrowth, as well as insufficient quality of chromosome preparations.

Cell culture may selectively yield normal karyotypes or selected abnormal karyotypes that survive in-vitro cell proliferation. Studies have shown that QF-PCR can serve as a complementary method in cytogenetic studies of spontaneous abortions. The QF-PCR technology is also proven to be a fast, reliable and cost-efficient technique for diagnosis of chromosomal aneuploidies in prenatal samples. QF-PCR does not require cell culture, requires very small amounts of tissue material and allows the lab to obtain results within one working day.

The Devyser Extend v2 kit includes 42 genetic markers for aneuploidy analysis by QF-PCR of chromosomes 13, 15, 16, 18, 21, 22, X and Y.

Devyser. Results for life.

Devyser is specialized in the development, manufacture and sales of diagnostic kits for complex DNA testing within Oncology, Reproductive Health and Hereditary Diseases. The products are used to guide targeted cancer therapies, to enable rapid prenatal diagnostics as well as in a wide array of genetic tests. Devyser's product development focuses on simplifying and streamlining complex testing processes to improve throughput, reduce hands-on time and produce accurate and trusted results.



Technical specifications

Intended use:

In vitro diagnostic product for detection of whole chromosome aneuploidies of chromosomes 13, 15, 16, 18, 21, 22, X and Y

CE-labelled for IVD use

Detection format:

Thermo Fisher's capillary electrophoresis instruments: ABI 310, ABI 3130, ABI 3500, ABI 3730

Complies with Best Practice guidelines for QF-PCR

Kit variants:

- Devyser Extend v2 (8-A015.2): 42 genetic markers detected in two multiplex PCR reactions.
- Devyser Extend M1 (8-A015.2-M1): 15 genetic markers detecting chromosomes 15, 16 and 22 in one single PCR reaction.

DNA input:

10 – 20 ng / PCR reaction

Contact

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