

Devyser AZF

Designed for accuracy, speed and ease of use

Key advantages of the Devyser AZF:

- A single PCR reaction detects 14 STS markers
- Automatic identification of STS markers – no subjective data interpretation
- No toxic EtBr stained Agarose gels required
- Cost-effective solution with less hands-on time required

Male infertility

Approximately 15% of couples attempting their first pregnancy meet with failure. Many of these contact infertility centres for diagnosis and treatment. In approximately 30% of cases pathology is found in the man alone, and in another 20% both the man and woman are abnormal. Therefore, the male factor is at least partly responsible in about 50% of infertile couples.

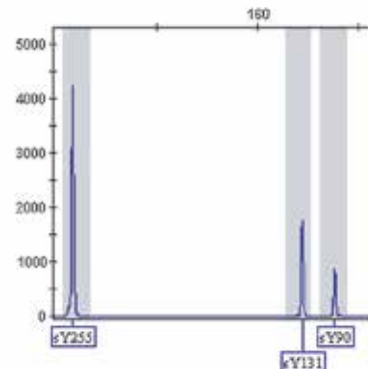
Diagnosis of Y-chromosome microdeletions

Y chromosome microdeletions are among the most common genetic causes of male infertility. It has been shown that in men with otherwise unexplained spermatogenic failure (azoospermia or severe oligozoospermia), microdeletions in the AZFa, AZFb and AZFc (AZF: Azoospermia Factor) regions on the long arm of the human Y chromosome (Yq11) are frequently deleted. PCR analysis of the Y-chromosome is an important screening tool in the work-up of infertile males opting for assisted reproductive techniques.

The Devyser AZF diagnostic kit

Diagnostic testing using the Devyser AZF kit relies on PCR amplification of sequence-tagged sites (STS) of the AZFa, AZFb and AZFc regions on the Y-chromosome. Successful amplification of an STS marker indicates presence, whereas absence of PCR amplification is indicative of deletion. All STS markers and control sequences, recommended by the European Academy of Andrology (EAA) and the European Quality Monitoring Network Group (EMQN) for basic Y-chromosomal microdeletion analysis are included in the kit.

The Devyser AZF kit combines analysis totally 14 STS markers into one multiplex PCR reaction. The use of fluorescently labelled primers for all markers allows automated visualization and identification of the STS markers using a Genetic Analyzer. Thus, eliminating multiple PCR reactions, use of toxic chemicals associated with the use of EtBr stained Agarose gels, and the guesswork associated with fragment identification.



Devyser AZF's automatic identification of STS markers provides clearly labelled data on the genetic analyzer.

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Technical Specification

Intended Use	The Devyser AZF kit is an in vitro diagnostic product for detection of microdeletions in the Y-chromosomal regions AZFa, AZFb and AZFc
CE -labelled for IVD use	Yes
Enables detection of all Y-chromosomal and control markers as recommended by EAA and EMQN for basic Y-chromosomal microdeletion analysis	Yes
Total number of markers	14 STS markers in one multiplex PCR reaction
Detection format	Capillary electrophoresis on Genetic Analyser.
Compatible Genetic Analysers:	ABI Prism 310, 3100, 3130, 3500 and 3730
Reaction volume	25 µL
DNA input	100 – 200 ng / PCR reaction
Ready to use for PCR	Yes
Kit size	25 test
Article id	8-A019

About Devyser

Devyser AB is specialized in the development, manufacturing and sales of diagnostic kits and reagents based on DNA analytical procedures, including PCR.

Devyser AB operates under strict quality control protocols and has an ISO13485:2012 (medical device) certification. Products are CE-labelled according to IVDD 98/79/EC for use in in-vitro diagnostic procedures. The main areas of application for our products are prenatal diagnostics and clinical genetics.