

MOLECULAR DIAGNOSTICS TESTING SOLUTIONS

EXCELLENT PERFORMANCE OF RT-PCR TESTS FOR ACCURATE DIAGNOSIS & TRUE SCREENING

MOLgen

CE-IVD

REF: ME138140

GENETICS AZF-MICRODELETIONS KIT

48 RXNS

MALE FERTILITY AND Y CHROMOSOME MICRODELETIONS

AZF, microdeletions of azoospermia factors, occur in the Y-chromosome regions Yq, responsible for spermatogenesis causing abnormalities in spermatogenesis and, therefore, male infertility.

At molecular level, deletions extend over 0.8 - 7.7 Mb, including several genes, but the size of AZF loci is too small to be detected by cytogenetics methods, that is why "microdeletions" term is used.

According to "EAA/EMQN best practice guidance for molecular diagnosis of Y-chromosomal microdeletions", microdeletions were detected in conventional Azoospermia factors loci at the q arm of the Y chromosome, AZFa, AZFb, AZFc by real-time PCR.

The absence of any group of markers in the patient specimen DNA confirms the deletion of the corresponding AZF locus.

To detect AZFa, AZFb and AZFc deletions following specific marker sequences were selected: sY-84 and sY- 86 (AZFa locus); sY-127 and sY-134 (AZFb locus); sY- 254 and sY-255 (AZFc locus).

The detection of the sex-determination SRY gene at the Yp arm (that is responsible for the initiation of male sex determination in humans and is absent in females) is performed in order to confirm the presence of Y- chromosome DNA in the specimen and male gender confirmation.

To confirm the presence of sufficient amount of human DNA in the specimen, the amplification of HMBS gene fragment located in autosome is performed simultaneously with Y-chromosome markers.

AZF-MICRODELETIONS KIT FOR BASIC DELETION SCREENING

- The identification and analysis of Y chromosome deletions is an important research tool for studying male infertility.
- Deletions in three regions, AZFa, AZFb, AZFc and are associated with male infertility.
- MOLgen Genetics AZF-Microdeletions Kit amplifies nonpolymorphic short DNA segments of the Y-chromosome by using Real-Time PCR.

FEATURES & ADVANTAGES

- All-in-one dried formats, easy to use with minimized steps.
- High potential for specific detection of all markers needed for basic deletion screening as recommended by European Academy of Andrology (EAA) and the European Molecular Genetics Quality Network (EMQN).
- Controls: sex-determining region Y protein (SRY gene) and HMBS gene for sample quality assurance.
- Stable storage of reagents/kits up to a year at 2-8°C, no freezing is required.
- Transportation of kits at temperatures up to +25°C. for up to 10-days.

SPECIMEN

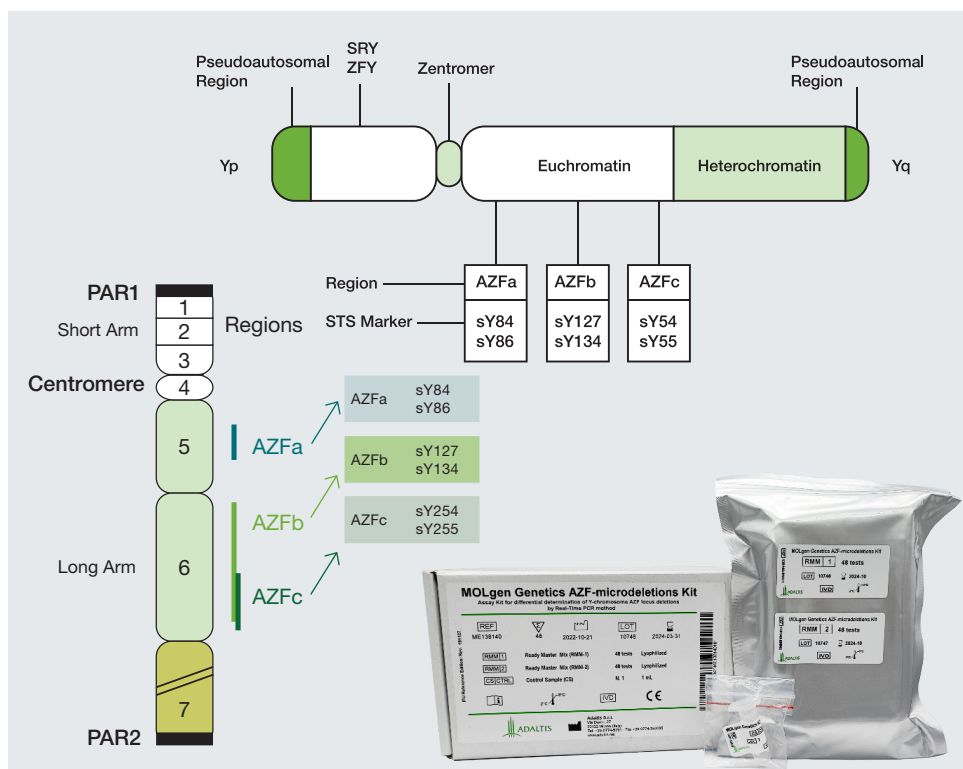
- Whole blood
- Buccal epithelium

AUTOMATED WORKFLOW

- Automated Extraction – EXTRA lab
- Automated Extraction – eLab
- RT-PCR - AMPLI lab

COMPATABILITY

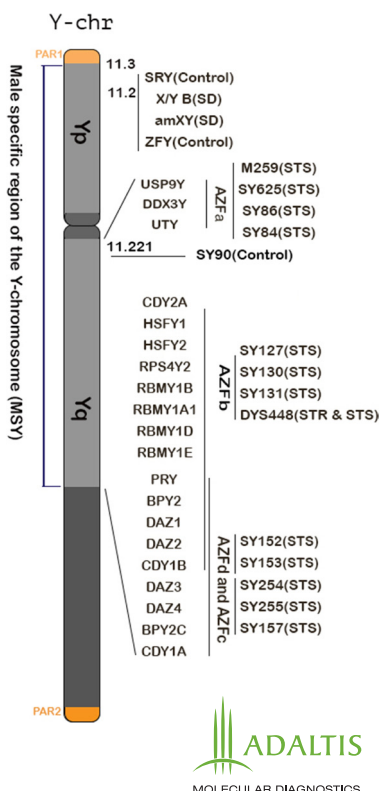
Compatible thermal cyclers: AMPLI lab (Adaltis) CFX96™ (Bio-Rad, USA), DTprime (DT-96)



GENETICS

Code	Kit Name	Format	Number of Tests
ME138020	■ MOLgen Genetics Haemostatic Disease (F2/F5)	STR	48
ME138030	■ MOLgen Genetics Haemostatic Diseases (MTR/ MTRR/ MTHFR)	STR	48
ME138310	■ MOLgen Genetics Haemostatic Disease (B-Fibrinogen/FXIII)	STR	48
ME138320	■ MOLgen Genetics Haemostatic Disease (ITGA2/FVII)	STR	48
ME138330	■ MOLgen Genetics Haemostatic Diseases (PAI-1/ITGB3)	STR	48
ME138060	■ MOLgen Genetics ACE Del287/AGT T704C	STR	48
ME138070	■ MOLgen Genetics BRCA (BRCA1 185delAG / 3875del4) Kit	STR	48
ME138080	■ MOLgen Genetics BRCA (BRCA1 3819del5 / T300G) Kit	STR	48
ME138090	■ MOLgen Genetics BRCA (BRCA1 2080delA(insA) / BRCA2 6174delT) Kit	STR	48
ME138120	■ MOLgen Genetics BRCA (BRCA1 4153delA / 5382insC) Kit	STR	48
ME138220	■ MOLgen Genetics Hemochromatosis (HFE 187 C/G) Kit	STR	48
ME138230	■ MOLgen Genetics Hemochromatosis (HFE 193 A/T) Kit	STR	48
ME138240	■ MOLgen Genetics Hemochromatosis (HFE 845 G/A) Kit Reagent kit is intended for differential determination of single-nucleotide polymorphisms of the coagulation system and folate cycle by real-time PCR with detection of melting curves.	STR	48
ME138360	■ MOLgen Genetics HLA-B*27 NEW Reagent kit is intended for detection of HLA-b*27 allele by real-time PCR.	UNI	48
ME138040	■ MOLgen Genetics MCM6 Reagent kit is designed for determination of single-nucleotide polymorphism of MCM6 gene - 13910C/T by real-time PCR with detection of melting curves.	UNI	48
ME138110	■ MOLgen Genetics Interleukin 28B Reagent kit is designed for determination of single-nucleotide polymorphism of interleukin 28B gene by real-time PCR with detection of melting curves.	UNI	48
ME138140	■ MOLgen Genetics AZF - Microdeletions Kit Reagent kit is designed for differential determination of Y-chromosome AZF locus deletions by real-time PCR.	STR	48
ME138270	■ MOLgen Genetics Warfarin (CYP2C9*2/CYP2C9*3) Kit NEW Reagent kit is intended for the determination of single nucleotide polymorphisms (SNPs) 430 C/T in CYP2C9 gene (CYP2C9*2) and 1075 A/C in CYP2C9 gene (CYP2C9*3). The kits contain reagents for real-time PCR only.	STR	48
ME138280	■ MOLgen Genetics Warfarin (VKORC1/CYP4F2*3) Kit NEW Reagent kit is intended for the determination of single nucleotide polymorphisms (SNPs) 1173 C/T in VKORC1 gene and 1297 C/T in CYP4F2 gene (CYP4F2*3).	STR	48
ME138290	■ MOLgen Genetics Warfarin (GGCX) Kit NEW Reagent kit is intended for the determination of single nucleotide polymorphism rs11676382 C/G in GGCX gene.	STR	48
ME138300	■ MOLgen Genetics Warfarin (CYP2C9*5/CYP2C9*6) Kit NEW Reagent kit is intended for the determination of single nucleotide polymorphisms (SNPs) 1080 C/G in CYP2C9 gene (CYP2C9*5) and 818 delA in CYP2C9 gene (CYP2C9*6).	STR	48

■ The kits contain reagents for real-time PCR only.



For more information

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ADALTIS is certified in compliance with ISO9001 and ISO 13485.
Our products are CE-IVD.