

WB Detection kit for Y chromosome microdeletion by end-point PCR

OUR CERTIFICATIONS

Our certifications

- ✓ ISO 13486:2016 certified
- ✓ ISO 9001: 2015 certified
- ✓ DPIIT (Govt. of India) certified
- ✓ Institutional Biosafety Committee (DBT)
- ✓ MSME Registered
- ✓ Trademark Registered with Trade Mark, Registry, Govt. of India

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GRANTS/AWARDS

- ✓ Biotechnology Ignition Grant Award-2013
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Phase-1 Grant -2015;
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Phase 2 Grant-2017
- ✓ Grand Challenge Explorations- Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Grant-2017
- ✓ DBS-NUS Social Venture Challenge Asia 2017 Finalist.
- ✓ BIRAC (Dept. of Biotechnology) Pre- Accelerator MedTech Challenge Grant-2021
- ✓ Fastest Growing Indian Company Award (2019) – International Achievers Conference, Bangkok
- ✓ Small Business Innovation Research Initiative (SBIRI) (2013) – Dept. of Science and Tech., Govt. of India.

INTRODUCTION

- Microdeletions of the Y chromosome are the second most frequent genetic cause of spermatogenic failure in infertile men after the Klinefelter syndrome.
- The molecular diagnosis of Y-chromosomal microdeletions is recommended in the workup of male infertility in men with azoospermia or severe oligozoospermia.
- Azoospermia men have a higher incidence of microdeletions than oligozoospermia men. The following recurrent microdeletions in the azoospermia factors (AZF) of the Y chromosome are clinically relevant and are found in men with severe oligo-or azoospermia
 1. AZFa,
 2. AZFb (P5/proximal P1),
 3. AZFc (b2/b4)
 4. SRY (Sex-determining Region Y)
- WobbleBase Y Chromosome Microdeletion Screening kit which allows two multiplex PCR reactions designed for the analysis of two STR markers in each AZF deletion region along with internal quality control markers on the Y chromosome and confirmed by agarose gel analysis.

KEY FEATURES

- **Precision:** Our reagents are meticulously formulated to ensure precise detection of even the smallest Y chromosome microdeletions, providing you with confidence in your results.
- **Sensitivity:** With enhanced sensitivity, our reagents can detect microdeletions with utmost efficiency, allowing for early identification and intervention.
- **Ease of Use:** Designed for seamless integration into your laboratory workflow, our reagents streamline the detection process, saving you time and effort.
- **Versatility:** Compatible with Conventional PCR amplification and gel electrophoresis techniques, our reagents offer versatility, making them suitable for a wide range of research and diagnostic applications.

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✓ TATA Health Fund (Phase 1 - Biosafety) – 2024

- **Reliability:** Backed by rigorous quality control measures, our reagents deliver consistent and reproducible results, ensuring reliability in every experiment.

Applications:

1. Clinical diagnostics
2. Research studies on male infertility
3. Genetic counseling
4. Forensic analysis

*Your thinking
partner in
science*

SPECIFICATIONS

Technology	Conventional PCR amplification and gel electrophoresis technique
Type of Analysis	Qualitative
Target Sequence	AZF (Azoospermia Factor) regions (AZFa, AZFb, AZFc), SRY (Sex-determining Region Y) gene
Reporting Units	detected, not detected or inconclusive
Controls	Inhibition and extraction control, negative control, positive control
Validated specimen	Whole blood
Storage	-20 ± 5 °C
Instrument	Conventional PCR amplification and gel electrophoresis technique

CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
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WB Detection kit for Y chromosome microdeletion by end-point PCR

YCMDG/WBB/50	WB Y Chromosome Microdeletion Screening kit	50 reactions
YCMDG/WBB/100	WB Y Chromosome Microdeletion Screening kit	100 reactions