Wobble Base® BioResearch

WB QF FOR TRISOMY DETECTION PCR Kit

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

CONTACT

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

INTRODUCTION

- Quantitative fluorescent-polymerase chain reaction (QF-PCR) enables the rapid detection of both the common aneuploidy syndromes (Trisomy 21, Trisomy 18, Trisomy 13) and sex chromosome aneuploidies using DNA extracted from amniotic fluid, CVS, blood or solid tissue.
- Polymorphic microsatellite markers located on the X and Y chromosomes and chromosomes 13, 18 and 21 are amplified by PCR and the amount of product quantified using software.
- The quantity of amplified product detected enables the total number of the targeted chromosomes present to be determined. While QF-PCR can be carried out on any tissue it is most widely used to provide rapid aneuploidy results on prenatal and neonatal blood samples.
- A minimum of four polymorphic microsatellite markers are amplified from each target chromosome and all abnormal results are backed up using a second independent test; either a different set of polymorphic markers or interphase FISH. In the rare case where the QF-PCR result is uninformative, FISH testing will be carried out.
- QF-PCR has the added advantage of being able to detect maternal cell contamination in amniotic fluid and chorionic villi samples.

KEY FEATURES

- High Sensitivity: Detects trisomy with exceptional sensitivity, even at low fetal DNA concentrations, for early and reliable screening.
- Semi-Quantitative Analysis: Quantifies target DNA fragments to provide a more comprehensive assessment of trisomy status, facilitating informed risk stratification.
- Versatile Platform: Compatible with standard Sanger sequencing platforms, ensuring seamless integration into existing laboratory workflows.
- Robust Performance: Delivers consistent and reproducible results, minimizing variability and maximizing confidence in clinical interpretation.

- Comprehensive Support: Backed by our team of experts, who provide ongoing assistance and guidance to optimize assay performance and interpretation..

Your thinking partner in science

SPECIFICATIONS

Technology	Fluorescent primer based; PCR-Fragment analysis; require Sanger Sequencing Platform
Type of Analysis	Semi Qualitative
Target Sequence	Aneuploidies in chromosomes 13, 18, 21, X, and Y
Controls	Positive control
Validated specimen	Whole blood
Storage	-20 ± 5 °C
Instrument	Compatible with a wide range of conventional PCR devices and ABI-DNA capillary electrophoresis sequencing.

CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
QFFP/WBB/50	WB QF PCR For Trisomy Detection PCR Kit	50 reactions
QFFP/WBB/100	WB QF PCR For Trisomy Detection PCR Kit	100 reactions