

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

- Human Leukocyte Antigen-B (HLA-B), as part of the major histocompatibility complex (MHC) class I, is involved in the recognition of self and foreign peptides.
- The allelic variant of Human Leukocyte Antigen (HLA) serotype B27 (HLA-B27) is present in about 8% of healthy Caucasians and is well known as a genetic risk factor for spondyloarthropathies.
- HLA-B27 is found in about 90% of patients with Ankylosing Spondylitis (AS). Ankylosing Spondylitis is a type of arthritis that affects the spine.
- Ankylosing Spondylitis affects about 0.1% to 0.5% of the adult population. Although it can occur at any age, spondylitis most often strikes men in their teens and 20s. Most, but not all, people with spondylitis carry a gene called HLA-B27.
- WobbleBase HLA-B27 PCR Kit is a Real-time PCR-based assay for the qualitative detection of HLA-B27 allele in human serum or plasma.
- It is based on amplification of the allelic gene region by primer and probes specific for HLA-B27. In this kit, there are two independent reactions running in parallel in each tube: the first detects HLA-B27 (FAM channel); the second detects internal control (HEX channel) which allows exclusion of unreliable results.
- Three of the most common methods for determination of HLA antigens in clinical and research laboratories are microlymphocytotoxicity (MLCT), flow cytometry and polymerase chain reaction (PCR) but DNA testing by PCR for detection of HLA B27 is extremely accurate and considered the gold standard.

KEY FEATURES

- HLA B27 PCR tests are considered to be a gold standard. It is a rapid, more reliable and extremely accurate test.
- Compared to other technologies like flow cytometry, HLA B27 PCR testing does not necessarily require a viable lymphoid.
- Since PCR directly detects the allele, incomplete typing is greatly reduced.
- Positive and negative control to confirm the integrity of the kit reagents
- High sensitivity & accuracy
- Available in different pack sizes
- Reliable and cost effective.

SPECIFICATIONS

Technology	Real-Time PCR with hydrolysis probes
Type of Analysis	Qualitative

WB Human Leukocyte Antigen (HLA B27) RT-PCR Kit [Fluorescent Probe based]

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

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science*

Target Sequence	Specific for HLA-B*2702, HLA-B*2704 and HLA-B*2705 in exon 3
Analytical Specificity	100% of the known HLA- B27 strains
Analytical Sensitivity (LoD with probability 95 %)	2 copies/μL (0.4 ng/μL) using Wobble Base manual extraction DNA Nucleic Acid Kit
Diagnostic Specificity	100.00 % (CI95 %: 92.9 %-100 %)
Diagnostic Sensitivity	98.10 % (CI95%: 96.45 % – 99.84 %)
Dynamic Range	0.4 ng/μl-50 ng/μl
Reporting Units	HLA B27 DNA detected, not detected or inconclusive
Validated specimen	Whole blood collected in EDTA tube
Storage	-20 ± 5 °C
Required detection channels	FAM, HEX(VIC)
Instrument	Compatible with a wide range of real time PCR devices.

CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
HLAB27D/WBB/50	WB Human Leukocyte Antigen (HLA B27) RT-PCR Kit	50 reactions
HLAB27D/WBB/100	WB Human Leukocyte Antigen (HLA B27) RT-PCR Kit	100 reactions