

Document number: PSM MOLECULAR BIOLOGY IMMUNOLOGY Issue number: 1.06	Effective date: 23/07/26	Page 1 of 6
Title: Primary Sample Manual: Molecular Biology - Immunology		

Author: *Etain O'Rourke*

Approved By: *Michael Louw, Loretto Pilkington, Conleth Feighery, JS Charles*

Title: Primary Sample Manual: Molecular Biology - Immunology

Changes made since previous version: *Changed the second paragraph under 'INTRODUCTION' to "If you cannot find details of a test you require...". Removed HLA-B27 testing. Changed the title of HLA-B27 Extended testing to HLA-B*27. Removed reference to ViennaLab HLA-B27 RealFast assay kit insert.*

Note: *Please refer to the document record on QPulse / IQM for the revision history of this document*

**THIS DOCUMENT IS CONTROLLED. PRINTED DOCUMENTS ARE DEEMED CONTROLLED
WHEN STAMPED 'IF THIS IS GREEN IT IS AN APPROVED ISSUE'.**

Document number: PSM MOLECULAR BIOLOGY IMMUNOLOGY Issue number: 1.06	Effective date: 23/07/26	Page 2 of 6
Title: Primary Sample Manual: Molecular Biology - Immunology		

CONTENTS:

INTRODUCTION.....	3
TEST INFORMATION TEMPLATE.....	3
NOTES ON SAMPLE STABILITY.....	4
REFERENCES.....	4
REASONS FOR REJECTION OF SAMPLES/NON-REPORTING OF TESTS.....	4
HLA-B*27	5

THIS DOCUMENT IS CONTROLLED. PRINTED DOCUMENTS ARE DEEMED CONTROLLED
WHEN STAMPED 'IF THIS IS GREEN IT IS AN APPROVED ISSUE'.

Document number: PSM MOLECULAR BIOLOGY IMMUNOLOGY Issue number: 1.06	Effective date: 23/07/26	Page 3 of 6
Title: Primary Sample Manual: Molecular Biology - Immunology		

INTRODUCTION

This is a list of the Molecular Immunology tests performed at Eurofins Biomnis' Dublin Laboratory. For a searchable list of tests performed by Eurofins Biomnis in France, in our laboratories in Lyon and Paris, click [here](#).

If you cannot find details of a test you require, please contact our Client Services department on Free Phone 1800-252-966 or 01 295 8545, or e-mail clientservices@ctie.eurofinseu.com.

For sample collection, please contact our Logistics department on Free Phone 1800-252-967, or e-mail logistics@ctie.eurofinseu.com.

TEST INFORMATION TEMPLATE	
Brief information on clinical background, indications for test and interpretation of test results.	
Preparation of Patient: any special preparation required, such as fasting. Precautions: any special circumstances, conditions etc. to be aware of.	
Accredited	Whether or not the test is accredited by INAB to ISO 15189. If the test is accredited (Yes), this section is colour-coded in green; if the test is not accredited (No), this section is colour-coded in orange.
Method	Test method. Standard Operating Procedure reference for this test.
Sample Requirements	Type of tube required, transport temperature and other information.
Turnaround Time	The maximum turnaround time in working days from receipt of the sample in the laboratory's Pre-Analytics department to the authorisation of the result. Working days are Monday to Friday 08:00 to 18:00.
Stability	Sample stability under various conditions. RT = room temperature i.e.: 16 – 25 °C. Please see SAMPLE STABILITY notes below. Stability data indicated by a superscript numeral 1 are taken from the publication referenced below ¹ .
Laboratory Sample Storage	The length of time that the laboratory stores patient samples for and the conditions in which the samples are stored.
Results and Source	The potential results that may be released for the test. Source of the results.

THIS DOCUMENT IS CONTROLLED. PRINTED DOCUMENTS ARE DEEMED CONTROLLED WHEN STAMPED 'IF THIS IS GREEN IT IS AN APPROVED ISSUE'.

Document number: PSM MOLECULAR BIOLOGY IMMUNOLOGY Issue number: 1.06	Effective date: 23/07/26	Page 4 of 6
Title: Primary Sample Manual: Molecular Biology - Immunology		

NOTES ON SAMPLE STABILITY

Most incorrect laboratory test results are due to improper sample collection and transport. For details regarding correct phlebotomy technique and our patient identification requirements, please click [here](#).

In order for you to arrange and properly time phlebotomy and sample collection, we have indicated, for each test, its stability after collection.

Stability data are taken from the test manufacturer's instructions for use^{Error! Reference source not found.}.

REFERENCES

1. geneMAP™ HLA-B*27 Detection Kit For Real-Time PCR Instruction For Use F-08-05
Rev.Date: 12.12.2024

REASONS FOR REJECTION OF SAMPLES/NON-REPORTING OF TESTS

1. Samples received beyond the stability limits and/or not at the correct temperature indicated below for each test.
2. Samples received in the incorrect tube/with the incorrect anticoagulant or lack of the correct anticoagulant.

**THIS DOCUMENT IS CONTROLLED. PRINTED DOCUMENTS ARE DEEMED CONTROLLED
WHEN STAMPED 'IF THIS IS GREEN IT IS AN APPROVED ISSUE'.**

Document number: PSM MOLECULAR BIOLOGY IMMUNOLOGY Issue number: 1.06	Effective date: 23/07/26	Page 5 of 6
Title: Primary Sample Manual: Molecular Biology - Immunology		

HLA-B*27	
HLA-B27 is a class I surface antigen strongly associated with seronegative spondyloarthropathies, such as ankylosing spondylitis. Ankylosing spondylitis is a type of arthritis characterised by long-term inflammation of the joints of the spine. 90% of patients diagnosed with Ankylosing spondylitis (AS) test positive for HLA-B27, thus genotyping is suitable for the differential diagnosis of AS. However, only 1-2% of those who test positive for HLA-B27 develop AS. Therefore, the test is not indicated as a screening test. HLA-B27 has a frequency of approximately 8% in the general Caucasian population. The qualitative assay used for the detection of HLA-B27 discriminates the presence or absence of HLA-B*27 alleles in a human genomic DNA extract from blood. This assay detects the following HLA-B*27 subtypes: B*27:01, B*27:02:01:01-05, B*27:02:02-05, B*27:03, B*27:04:01-06, B*27:05:02:01-3, B*27:05:02:04Q, B*27:05:02:05-21, B*27:05:03-17, B*27:05:18:01-02, B*27:05:19-47, B*27:06:01:01-02, B*27:08-10, B*27:12:01:01-03, B*27:13:01-02, B*27:15-18, B*27:23, B*27:25-29, B*27:31, B*27:35, B*27:37-42, B*27:44-49, B*27:50:01-02, B*27:51-58, B*27:59N, B*27:60-62, B*27:64N-66N, B*27:67-69, B*27:71-72, B*27:74-79, B*27:82-89, B*27:91-93, B*27:94N, B*27:96:01-02, B*27:97-98, B*27:100-101, B*27:103-123, B*27:126, B*27:128-129, B*27:131-137, B*27:139-149, B*27:151-152, B*27:154, B*27:156-163, B*27:165-175, B*27:176N, B*27:177-179, B*27:181-184, B*27:185Q, B*27:186, B*27:189-204, B*27:206-211, B*27:212N, B*27:213-214, B*27:215N, B*27:220-222, B*27:223N, B*27:225N, B*27:226.	
Preparation of patient: There is no physical preparation for the HLA-B27 Extended test.	
Precautions: None.	
Accredited	Yes
Method	Molecular Biology – Real-time PCR SOP: MB69
Sample Requirements	Tube Type: Whole blood EDTA Temperature: 2-8°C for up to 30 days. -20°C thereafter. Miscellaneous: Non fasting
Turnaround Time	5 working days from sample receipt
Stability	Whole blood in EDTA at 2-8°C: 30 days Whole blood in EDTA at -20°C: 1 year (Unless the sample has gone through more than three freeze-thaw cycles)
Laboratory Sample Storage	Primary sample tube (whole blood in EDTA): 1 month at 2-8°C DNA extracts: 3 months at -20°C

THIS DOCUMENT IS CONTROLLED. PRINTED DOCUMENTS ARE DEEMED CONTROLLED WHEN STAMPED 'IF THIS IS GREEN IT IS AN APPROVED ISSUE'.

Document number: PSM MOLECULAR BIOLOGY IMMUNOLOGY Issue number: 1.06	Effective date: 23/07/26	Page 6 of 6
Title: Primary Sample Manual: Molecular Biology - Immunology		

Results and Source	HLA-B*27 Present HLA-B*27 Absent Invalid Source: geneMAP™ HLA-B*27 Detection Kit For Real-Time PCR Instruction For Use F-08-05 Rev.Date: 12.12.2024

Consultant Responsible: Pr. C. Feighery
Eurofins Biomnis: +353-1-295-8545

THIS DOCUMENT IS CONTROLLED. PRINTED DOCUMENTS ARE DEEMED CONTROLLED
WHEN STAMPED 'IF THIS IS GREEN IT IS AN APPROVED ISSUE'.