



Centro de Hemoterapia y
Hemodonación de Castilla y León



SEI
Sociedad Española
de Inmunología



External Quality Assurance Program for Diagnostic Immunology
Laboratories GECLID-SEI

Lab Performance 01/01/2018 - 31/12/2018 HLA-6AB: HLA class I and II DNA typing (High resolution)

SUBPROGRAMME HISTOCOMPATIBILITY & IMMUNOGENETICS (LAB HLA003B)



LABORATORY INFORMATION

Code: HLA003B

Contact person: DR. RAFAEL GONZÁLEZ

Laboratory: SERVICIO INMUNOLOGÍA

Center: HOSPITAL UNIVERSITARIO REINA SOFÍA

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LABORATORY PERFORMANCE HLA003B | HLA-6AB: HLA CLASS I AND II DNA TYPING (HIGH RESOLUTION)








SAMPLES

Nb. sent samples:	10
Nb. reported samples	10

Summary:  Satisfactory

LAB PERFORMANCE

01/01/2018 > 31/12/2018

Parameter	Round	Score		
Class I HLA	r1	0		
	r2	0		
	Total	0		Satisfactory
	Class II HLA			
Class II HLA	r1	0		
	r2	0		
	Total	0		Satisfactory
	Parameter			
HLA-A*	Round	Score		
	r1	0		
	r2	0		
	Total	0		Satisfactory
HLA-B*	r1	0		
	r2	0		
	Total	0		Satisfactory
	HLA-C*	r1	0	
r2		0		
Total		0		Satisfactory
HLA-DRB1*		r1	0	
	r2	0		
	Total	0		Satisfactory
	HLA-DRB3*	r1	0	
r2		0		
Total		0		Satisfactory
HLA-DRB4*		r1	0	

Parameter	Round	Score		
	r2	0		
	Total	0	✓	Satisfactory
HLA-DRB5*				
	r1	0		
	r2	0		
	Total	0	✓	Satisfactory
HLA-DQA1*				
	r1	0		
	r2	0		
	Total	0	✓	Satisfactory
HLA-DQB1*				
	r1	0		
	r2	0		
	Total	0	✓	Satisfactory

HLA-6AB SCORE:

Scoring: Zero (0) means that there are no mistakes; each class I (or class II) sample failed scores 1 point. HLA TYPING SCHEME ASSESMENT

For HLA typing schemes the entire typing must be correct for a sample to be considered correct.

DNA-based EPT:

> For all DNA based EPT (2 or 4 digits) the HLA typing accepted by the EPT Provider is designated as the correct result.

> DNA typing (4 digits): HLA alleles must be assessed on the basis of differences in exons 2 and 3 for class I and exon 2 for class II, as a minimum requirement. Examples of possible discrepancies:

- A participant reports an allele not included in the typing accepted by the Provider.
- A participant fails to report an allele included in the typing accepted by the Provider.
- A participant reports a different allele, e.g. the participant reports HLA-A*01:02 while the correct typing is HLA-A*01:01.

SUCCESSFUL PERFORMANCE IN EPT

Successful performance applies to the annual EPT performance of the laboratory.

The maximum number of discrepancies allowed is used to determine the acceptable laboratory performance levels:

>HLA typing: 9 correct HLA types per 10 samples tested or 90% of the total number tested.

According to EFI standard D1.4.1.2 HLA alleles must be identified at the level of resolution which defines the first and second fields according to WHO nomenclature by at least resolving all ambiguities that encompass a null allele, wherever the polymorphism is located, unless it can be demonstrated that an expressed antigen is present on the cells.

- (1) C*15:02:01G comprises C*15:02:01:08N (2018) and will be therefore penalized in future rounds
- (2) C*15:05:01G comprises C*15:164N (2018) and will be therefore penalized in future rounds
- (3) DRB4*01:03 and DRB4*01:03:01 are penalized when not explicitly discarding DRB4*01:03:01:03N
- (4) DPB1*04:01 and DPB1*04:01:01 are penalized unless explicitly discarding DPB1*04:01:01:24N
- (5) A*03:01 and A*03:01:02 are penalized when not explicitly discarding A*03:01:01:02N

- (6) DPB1*02:01:02G comprises DPB1*700:01N (2018) and will be therefore penalized in future rounds
- (7) DPB1*04:02:01G comprises DPB1*724:01N (2018) and will be therefore penalized in future rounds
- (8) A*32:01:01G comprises A*32:117N (2018) and will be therefore penalized in future rounds
- (9) B*15:01 and B*15:01:01 are penalized when not explicitly discarding B*15:01:01:02N
- (10) C*15:05:01G comprises C*15:164N (2018) and will be therefore penalized in future rounds
- (11) DPB1*02:01:02G comprises DPB1*700:01N (2018) and will be therefore penalized in future rounds
- (12) DPB1*04:01 and DPB1*04:01:01 are penalized when not explicitly discarding DPB1*04:01:01:24N
- (13) C*07:02 and C*07:02:01 comprise C*07:02:01N (2018) and will be therefore penalized in future rounds
- (14) DPB1*04:02:01G comprises DPB1*724:01N (2018) and will be therefore penalized in future rounds



Dra. Carmen Martín
Programme Manager