



Centro de Hemoterapia y
Hemodonacion de Castilla y Leon



SEI
Sociedad Española
de Inmunología



External Quality Assurance Program for diagnostic immunology
laboratories GECLID-SEI 2018

Report HLA: 5AB HLA class I and II DNA typing (Low resolution) - 2018 round r1

HISTOCOMPATIBILITY & IMMUNOGENETICS SUBPROGRAMME (LAB HLA003B)



LABORATORY INFORMATION

Code: HLA003B

Laboratory: SERVICIO INMUNOLOGÍA

Center: HOSPITAL UNIVERSITARIO REINA SOFÍA

Address: AVDA. MENÉNDEZ PIDAL, S/N - 14004 -
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Contact person: DR. RAFAEL GONZÁLEZ

Dates: 16/01/2018

Report: 25/04/2018

ASSESSMENT AND PERFORMANCE

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 (2 digits); examples of possible discrepancies:
 - A participant reports a specificity not included in the typing accepted by the Provider.
 - A participant fails to report a specificity included in the typing accepted by the Provider.

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 (2 digits, DNA-based): 9 correct HLA typings per 10 samples tested or 90% of the total number tested.

SAMPLE HLA18-5AB.01R1

Alleles	n	Assigned		Stand. Dev.	Uncertainty	Iterations	Your typing	z-score	Eval.
		Min.	Máx. typing Accepted typing						
HLA-A(allele1)*			02				02		0
HLA-A(allele2)*			24				24		0
HLA-B(allele1)*			18				18		0
HLA-B(allele2)*			35				35		0
HLA-C(allele1)*			04				04		0
HLA-C(allele2)*			07				07		0
HLA-DRB1(allele1)*			11				11		0
HLA-DRB1(allele2)*			14				14		0
HLA-DQA1(allele1)*			01				01		0
HLA-DQA1(allele2)*			05				05		0
HLA-DQB1(allele1)*			03				03		0
HLA-DQB1(allele2)*			05				05		0

SAMPLE HLA18-5AB.02R1

Alleles	n	Assigned		Stand. Dev.	Uncertainty	Iterations	Your typing	z-score	Eval.
		Min.	Máx. typing Accepted typing						
HLA-A(allele1)*			30				30		0
HLA-A(allele2)*			31				31		0

Alleles	n	Assigned		Stand. Dev.	Uncertainty	Iterations	Your typing	z-score	Eval.
		Min.	Máx. typing						
HLA-B(allele1)*			41				41		0
HLA-B(allele2)*			45				45		0
HLA-C(allele1)*			16				16		0
HLA-C(allele2)*			17				17		0
HLA-DRB1(allele1)*			03				03		0
HLA-DRB1(allele2)*			10				10		0
HLA-DQA1(allele1)*			01				01		0
HLA-DQA1(allele2)*			05				05		0
HLA-DQB1(allele1)*			02				02		0
HLA-DQB1(allele2)*			05				05		0

SAMPLE HLA18-5AB.03R1

Alleles	n	Assigned		Stand. Dev.	Uncertainty	Iterations	Your typing	z-score	Eval.
		Min.	Máx. typing						
HLA-A(allele1)*			02				02		0
HLA-A(allele2)*			-				-		0
HLA-B(allele1)*			18				18		0
HLA-B(allele2)*			51				51		0
HLA-C(allele1)*			07				07		0
HLA-C(allele2)*			14				14		0
HLA-DRB1(allele1)*			08				08		0
HLA-DRB1(allele2)*			11				11		0
HLA-DQA1(allele1)*			04				04		0
HLA-DQA1(allele2)*			05				05		0
HLA-DQB1(allele1)*			03				03		0
HLA-DQB1(allele2)*			04				04		0

SAMPLE HLA18-5AB.04R1

Alleles	n	Assigned		Stand. Dev.	Uncertainty	Iterations	Your typing	z-score	Eval.
		Min.	Máx. typing						
HLA-A(allele1)*			33				33		0
HLA-A(allele2)*			68				68		0
HLA-B(allele1)*			14				14		0
HLA-B(allele2)*			44				44		0
HLA-C(allele1)*			02				02		0
HLA-C(allele2)*			08				08		0
HLA-DRB1(allele1)*			01				01		0
HLA-DRB1(allele2)*			15				15		0
HLA-DQA1(allele1)*			01				01		0
HLA-DQA1(allele2)*			01 -				-		0
HLA-DQB1(allele1)*			05				05		0
HLA-DQB1(allele2)*			06				06		0

SAMPLE HLA18-5AB.05R1

Alleles	n	Min.	Máx.	Assigned typing Accepted typing	Stand. Dev.	Uncertainty	Iterations	Your typing	z-score	Eval.
HLA-A(allele1)*				24				24		0
HLA-A(allele2)*				30				30		0
HLA-B(allele1)*				18				18		0
HLA-B(allele2)*				45				45		0
HLA-C(allele1)*				05				05		0
HLA-C(allele2)*				16				16		0
HLA-DRB1(allele1)*				03				03		0
HLA-DRB1(allele2)*				10				10		0
HLA-DQA1(allele1)*				01				01		0
HLA-DQA1(allele2)*				05				05		0
HLA-DQB1(allele1)*				02				02		0
HLA-DQB1(allele2)*				05				05		0

LAB PERFORMANCE

Parameter	Nb. reported samples	Score	Nb. Labs reporting
Class I HLA	5	0	38
Class II HLA	5	0	38

Parameter	Nb. reported samples	Score	Nb. Labs reporting
HLA-A*	5	0	37
HLA-B*	5	0	38
HLA-C*	5	0	35
HLA-DRB1*	5	0	38
HLA-DQA1*	5	0	21
HLA-DQB1*	5	0	35

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



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