

**Jewish Hospital Histocompatibility Laboratory**  
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Tiffany Roberts, PhD, DABCC, DABHI, Director

**TEST INFO**

**Patient ID:** AGJG190

**Sample ID:** 19-029467

**Kit Name:** LinkSēq HLA  
ABCDRDQDP+

**Patient Name:** AGJG190,  
DECEASED

**Sample Date:** 10/08/2019

**Kit Lot #:** K3749-CR

**Test Date:** 10/8/2019

**Plate 1 ID:** SX291901-BUV

**Kit Exp Date:** 2020-07-31

**SUMMARY**

This session includes tests for A, B, C, DR, DQA, DQB, DPA and DPB

TEST	GENOTYPE	PHENOTYPE	TEST	GENOTYPE	PHENOTYPE
HLA-A	A*01 A*03	A1 A3	HLA-C	C*07 C*07	Cw7 Cw7
HLA-B	B*07 B*08	B7 B8	Bw	-	Bw6 Bw6
HLA-DRB1	DRB1*03 DRB1*03	DR17 DR17	HLA-DRB345	DRB3*01	DR52
HLA-DQA1	DQA1*05 DQA1*05	DQA1*05 DQA1*05	HLA-DQB1	DQB1*02 DQB1*02	DQ2 DQ2
HLA-DPA1	DPA1*02 DPA1*02	DPA1*02 DPA1*02			

EPITYPE	ALLELES	HVR-A	HVR-B	HVR-C	HVR-D	HVR-E	HVR-F
EDP01	DPB1* 01:01:01:01, 01:01:02:01; DPB1* 01:01:01:02e-01:01:01:10e, 01:01:02:02e-01:01:04e, 01:01:06e / DPB1* 118:01e / DPB1* 127:01e / DPB1* 159:01Ne / DPB1* 220:01e / DPB1* 267:01e / DPB1* 326:01e / DPB1* 327:01e / DPB1* 346:01e / DPB1* 417e / DPB1* 481:01e / DPB1* 483:01e / DPB1* 542:01e / DPB1* 543:01e / DPB1* 616:01e / DPB1* 632:01e / DPB1* 667:01e / DPB1* 733:01e / DPB1* 800:01Ne / DPB1* 807:01e / DPB1* 810:01e / DPB1* 853:01e / DPB1* 862:01Ne / DPB1* 866:01Ne / DPB1* 879e / DPB1* 931:01e	VYQG	EEYA	AAE	ILEEK	V	DEAV
EDP01	DPB1* 01:01:01:01, 01:01:02:01; DPB1* 01:01:01:02e-01:01:01:10e, 01:01:02:02e-01:01:04e, 01:01:06e / DPB1* 118:01e / DPB1* 127:01e / DPB1* 159:01Ne / DPB1* 220:01e / DPB1* 267:01e / DPB1* 326:01e / DPB1* 327:01e / DPB1* 346:01e / DPB1* 481:01e / DPB1* 483:01e / DPB1* 542:01e / DPB1* 543:01e / DPB1* 616:01e / DPB1* 632:01e / DPB1* 667:01e / DPB1* 733:01e / DPB1*	VYQG	EEYA	AAE	ILEEK	V	DEAV

800:01Ne / DPB1\* 807:01e / DPB1\* 810:01e / DPB1\*  
853:01e / DPB1\* 862:01Ne / DPB1\* 866:01Ne / DPB1\*  
879e / DPB1\* 931:01e

*This genotype consists of alleles from a single group.  
This epitope was AUTOMATICALLY chosen because it is the only one which does not require a rare allele.*

*(Notice: Cannot exclude other combinations. Review all results.)  
All test results are based on IMGT/HLA database release version 3.35.0 - Jan 2019*

*For research use only. Not for use in diagnostic procedures.*

## LABORATORY ASSIGNMENT

HLA-A: **A1 A3**  
HLA-C: **Cw7 Cw7**  
HLA-DQA1: **DQA1\*05 DQA1\*05**  
HLA-DPA1: **DPA1\*02 DPA1\*02**

HLA-B: **B7 B8**  
HLA-DRB1: **DR17 DR17**  
HLA-DQB1: **DQ2 DQ2**  
HLA-DPB1: **DPB1\*01:01+  
DPB1\*01:01+**

Bw: **Bw6 Bw6**  
HLA-DRB345: **DR52**

## NOTES

The + sign indicates the presence of additional alleles of DPB1\* that cannot be ruled out. The detailed report can be found in the attachment section in UNET.

## REVIEW

Analyzed By: **Jovanne Cierras**

Signature:

Date:

Reviewed By:

Signature:

Date:

# HLA-A

GROUP	ALLELES	ANTIGEN
A*01	A* 01:01:01:01, 01:02-01:03:01:01; A* 01:01:01:03e-01:01:55e, 01:01:57e-01:01:101e, 01:03:01:02e, 01:08e	A1
	A* 01:04:01:01Nd; A* 01:01:01:02Ne, 01:04:01:02Ne, 01:11Ne, 01:15Ne-01:16Ne, 01:18Ne, 01:22Ne, 01:27Ne	Null
	A* 01:06d, 01:09:01:01d, 01:17d, 01:25d; A* 01:09:01:02e-01:09:02e, 01:13e-01:14e, 01:20e, 01:23e-01:24e, 01:28e-01:68e, 01:70e-01:88:01e, 01:89e-01:94e, 01:96e-01:101e, 01:103e-01:126e, 01:128e-01:135e, 01:137e-01:191e, 01:193e-01:199e, 01:201e-01:202e, 01:204e-01:235e, 01:237e-01:243e, 01:245e-01:288e, 01:290Ne-01:297e	-
A*03	A* 03:01:01:01, 03:02:01; A* 03:01:01:03d, 03:01:02d; A* 03:01:01:04e-03:01:01:24e, 03:01:04e-03:01:18e, 03:01:20e-03:01:38e, 03:01:40e-03:01:78e, 03:02:02e-03:02:04e, 03:04e, 03:20e	A3
	A* 03:21Nd; A* 03:01:01:02Ne, 03:03Ne, 03:11Ne	Null
	A* 03:06d-03:07:01d, 03:08d-03:09d, 03:22:01d, 03:26d, 03:50d, 03:108d; A* 03:07:02e, 03:12e-03:16e, 03:17:02e, 03:19e, 03:22:02e, 03:23:02e, 03:25e, 03:27e-03:29e, 03:31e-03:35e, 03:37e-03:40e, 03:44e-03:49e, 03:51e-03:56e, 03:58e-03:81e, 03:83e-03:88e, 03:89:02e-03:103:01e, 03:104e-03:106e, 03:110e-03:121e, 03:123e-03:134e, 03:136e-03:151e, 03:153e-03:166e, 03:168Ne-03:170e, 03:172e-03:185e, 03:188e-03:218e, 03:220e-03:224e, 03:226e-03:266Ne, 03:268e-03:272e, 03:274e-03:329Ne, 03:331e, 03:333e-03:334Ne	-
This genotype was chosen as the most likely; cannot exclude one or more rare genotypes.		

# HLA-B

GROUP	ALLELES	ANTIGEN
B*07	B* 07:02:01:01; B* 07:09:01d, 07:15d, 07:26d, 07:46d; B* 07:02:01:02e-07:02:10e, 07:02:12e-07:02:25e, 07:02:27e-07:02:73e, 07:09:02e, 07:11e, 07:17e, 07:30e, 07:57e-07:58e	B7
	B* 07:49Ne	Null
	B* 07:20d, 07:23d, 07:42d, 07:51d; B* 07:21e-07:22e, 07:28e, 07:33e, 07:35e, 07:39e, 07:41e, 07:44Ne-07:45e, 07:47e-07:48e, 07:52e, 07:54e-07:55e, 07:59e, 07:61e-07:64e, 07:66e-07:67Ne, 07:68:03e, 07:70e-07:71e, 07:74e, 07:76e, 07:82e, 07:87e-07:89e, 07:92e-07:96e, 07:98e-07:99e, 07:101e-07:104e, 07:106e-07:111Ne, 07:113e-07:114e, 07:116e-07:122e, 07:124e-07:130e, 07:132e-07:133e, 07:135Ne-07:136e, 07:139e, 07:141e-07:145e, 07:147e-07:148e, 07:150e-07:161Ne, 07:164e-07:175e, 07:177e-07:179e, 07:181Ne, 07:184e-07:192e, 07:194e-07:196e, 07:198e-07:200e, 07:203e, 07:205e, 07:208e, 07:211e-07:212e, 07:215e-07:217e, 07:221e, 07:224e, 07:226e, 07:229e-07:234e, 07:238e, 07:240e-07:247e, 07:250e-07:254e, 07:256e-07:257e, 07:259e, 07:261e, 07:263e, 07:265e-07:268e, 07:271e-07:272Ne, 07:274e-07:277e, 07:280e-07:282e, 07:285Ne-07:286e, 07:288e-07:292e, 07:294e-07:299e, 07:301e-07:303e, 07:305e, 07:307e-07:316Ne, 07:318Ne-07:323e, 07:326e, 07:328e-07:331e, 07:334e-07:339e, 07:341e-07:348e, 07:350e, 07:354e-07:355e	-
B*08	B* 08:01:01:01; B* 08:02d, 08:07d, 08:09d, 08:18d; B* 08:01:01:02e-08:01:48e, 08:10e, 08:15e-08:16e, 08:29e	B8

B* 08:08Ne, 08:19Ne, 08:30Ne	Null
<i>B* 08:13d, 08:20:01d, 08:35d;</i> B* 08:05e, 08:11e-08:12e, 08:14e, 08:20:02e, 08:22e, 08:24e, 08:27e-08:28e, 08:31e, 08:33e-08:34e, 08:36e-08:49e, 08:51e-08:53e, 08:56e-08:61e, 08:63e-08:64e, 08:66e-08:86Ne, 08:89e-08:93e, 08:95e-08:101e, 08:103e-08:106e, 08:108e-08:109e, 08:111e-08:117e, 08:119e-08:122e, 08:124e-08:131e, 08:134e-08:145e, 08:147e-08:154e, 08:156e-08:174e, 08:176e-08:179e, 08:181e-08:224e	-
<b>This genotype was chosen as the most likely; cannot exclude one or more rare genotypes.</b>	

## Bw

	ALLELES	ANTIGEN
<b>Bw6</b>	<b>B* 07:02:01:01 / B* 08:01:01:01;</b> <i>B* 07:09:01d, 07:15d, 07:20d, 07:23d, 07:26d, 07:42d, 07:46d, 07:51d / B* 08:07d, 08:09d, 08:13d, 08:18d, 08:20:01d, 08:35d;</i> B* 07:02:01:02e-07:02:10e, 07:02:12e-07:02:25e, 07:02:27e-07:02:73e, 07:09:02e, 07:11e, 07:17e, 07:21e-07:22e, 07:28e, 07:30e, 07:33e, 07:35e, 07:39e, 07:41e, 07:44Ne-07:45e, 07:47e-07:49Ne, 07:52e, 07:54e-07:55e, 07:57e-07:59e, 07:61e-07:64e, 07:66e-07:67Ne, 07:68:03e, 07:70e-07:71e, 07:74e, 07:76e, 07:82e, 07:87e-07:89e, 07:92e-07:96e, 07:98e-07:99e, 07:101e-07:104e, 07:106e-07:111Ne, 07:113e-07:114e, 07:116e-07:122e, 07:124e-07:130e, 07:132e-07:133e, 07:135Ne-07:136e, 07:139e, 07:141e-07:145e, 07:147e-07:148e, 07:150e-07:161Ne, 07:164e-07:175e, 07:177e-07:179e, 07:181Ne, 07:184e-07:192e, 07:194e-07:196e, 07:198e-07:200e, 07:203e, 07:205e, 07:208e, 07:211e-07:212e, 07:215e-07:217e, 07:221e, 07:224e, 07:226e, 07:229e-07:234e, 07:238e, 07:240e-07:243e, 07:245e-07:247e, 07:250e-07:254e, 07:256e-07:257e, 07:259e, 07:261e, 07:263e, 07:265e-07:268e, 07:271e-07:272Ne, 07:274e-07:277e, 07:280e-07:282e, 07:285Ne-07:286e, 07:288e-07:292e, 07:294e-07:299e, 07:301e-07:303e, 07:305e, 07:307e-07:316Ne, 07:318Ne-07:323e, 07:326e, 07:328e-07:331e, 07:334e-07:339e, 07:341e-07:348e, 07:350e, 07:354e-07:355e / B* 08:01:01:02e-08:01:48e, 08:05e, 08:08Ne, 08:10e-08:12e, 08:14e-08:16e, 08:19Ne, 08:20:02e, 08:22e, 08:24e, 08:27e-08:31e, 08:33e, 08:36e-08:49e, 08:51e, 08:53e, 08:56e-08:61e, 08:63e-08:64e, 08:66e-08:77e, 08:79e-08:86Ne, 08:89e-08:93e, 08:95e-08:101e, 08:103e-08:106e, 08:108e-08:109e, 08:111e-08:116e, 08:119e-08:122e, 08:124e-08:125e, 08:127e-08:131e, 08:134e-08:145e, 08:147e-08:154e, 08:156e-08:174e, 08:176e-08:179e, 08:181e-08:215Ne, 08:217e-08:224e	Bw6

## HLA-C

GROUP	ALLELES	ANTIGEN
<b>C*07</b>	<b>C* 07:01:01:01, 07:02:01:01, 07:04:01:01, 07:06:01:01;</b> <i>C* 07:01:02d, 07:02:01:03d, 07:05d, 07:12d, 07:40d;</i> C* 07:01:01:02e-07:01:01:28e, 07:01:03e-07:01:73e, 07:01:75e-07:01:77e, 07:02:01:02e, 07:02:01:04e-07:02:08e, 07:02:10e-07:02:31e, 07:02:33e-07:02:104e, 07:04:01:02e-07:04:18e, 07:06:01:02e-07:06:02e, 07:14e, 07:16e, 07:36e-07:38e, 07:44e-07:45e, 07:49e	<b>Cw7</b>
	<i>C* 07:32Nd;</i> C* 07:33Ne	Null
	<b>C* 07:18:01:01;</b> <i>C* 07:07d, 07:10d, 07:13d, 07:17:01d, 07:19d, 07:21d-07:22d, 07:24d-07:26:01d, 07:27:01d, 07:29:01d, 07:35d, 07:43:01d, 07:46d, 07:56:01d, 07:60d-07:61Nd, 07:66d-07:67d, 07:72d, 07:104Nd;</i> C* 07:03e, 07:08e-07:09e, 07:11e, 07:15e, 07:17:02e, 07:17:04e, 07:18:01:02e-07:18:03e, 07:23e, 07:26:02e-07:26:03e, 07:27:02e-07:28e, 07:29:02e, 07:31:02e, 07:39e, 07:42e, 07:43:02e, 07:47e-07:48e, 07:50e-07:55Ne, 07:56:02e-07:59e, 07:62e-07:63e, 07:65e, 07:68e-07:71e, 07:74e-07:91e, 07:93e-07:94e, 07:97e-07:100e, 07:102e-07:103e, 07:105e-07:137e, 07:139e, 07:141e-07:147e, 07:149e-07:160e, 07:162e-07:164Ne, 07:166e-07:171e, 07:173e-07:240e, 07:243e-07:264Ne, 07:266e-07:303e, 07:305e-07:306e, 07:308e-07:314:01e, 07:314:03e-07:341e,	-

C*07	07:343e-07:346e, 07:348e-07:363e, 07:365e-07:389e, 07:391e-07:446e, 07:448e-07:486e, 07:488e-07:511e, 07:513Qe, 07:515e-07:577e, 07:579e-07:582Qe, 07:584e-07:598e, 07:600Ne-07:670e, 07:672Ne-07:722e, 07:724e	
	<b>C* 07:01:01:01, 07:02:01:01, 07:04:01:01, 07:06:01:01;</b> C* 07:01:02d, 07:02:01:03d, 07:05d, 07:12d, 07:40d; C* 07:01:01:02e-07:01:01:28e, 07:01:03e-07:01:48e, 07:01:50e-07:01:72e, 07:01:75e-07:01:77e, 07:02:01:02e, 07:02:01:04e-07:02:08e, 07:02:10e-07:02:31e, 07:02:33e-07:02:54e, 07:02:56e-07:02:74e, 07:02:76e-07:02:104e, 07:04:01:02e-07:04:10e, 07:04:12e-07:04:18e, 07:06:01:02e-07:06:02e, 07:14e, 07:16e, 07:36e-07:38e, 07:44e-07:45e, 07:49e	Cw7
	C* 07:32Nd; C* 07:33Ne	Null
	<b>C* 07:18:01:01;</b> C* 07:07d, 07:10d, 07:13d, 07:17:01d, 07:19d, 07:21d-07:22d, 07:24d-07:26:01d, 07:27:01d, 07:29:01d, 07:35d, 07:43:01d, 07:46d, 07:56:01d, 07:60d-07:61Nd, 07:66d-07:67d, 07:72d, 07:104Nd; C* 07:03e, 07:08e-07:09e, 07:11e, 07:15e, 07:17:04e, 07:18:01:02e-07:18:03e, 07:20e, 07:23e, 07:26:02e, 07:27:02e-07:28e, 07:31:02e, 07:39e, 07:42e, 07:43:02e, 07:47e-07:48e, 07:50e-07:55Ne, 07:56:02e-07:59e, 07:62e-07:65e, 07:68e-07:71e, 07:73e-07:94e, 07:97e-07:100e, 07:102e-07:103e, 07:105e-07:137e, 07:139e, 07:141:02e-07:147e, 07:149e-07:160e, 07:162e-07:164Ne, 07:166e-07:240e, 07:243e-07:264Ne, 07:266e-07:303e, 07:305e-07:306e, 07:308e-07:314:01e, 07:314:03e-07:341e, 07:343e-07:346e, 07:348e-07:363e, 07:365e-07:392e, 07:394e-07:446e, 07:448e-07:486e, 07:488e-07:511e, 07:513Qe, 07:515e-07:577e, 07:579e-07:582Qe, 07:584e-07:598e, 07:600Ne-07:670e, 07:672Ne-07:722e, 07:724e	-
This genotype consists of alleles from a single group.		

For your information, there are additional alleles which are not detected by any assay in this test.

## HLA-DR

GROUP	ALLELES	ANTIGEN
DRB1*03	DRB1* 03:05:01d, 03:06d, 03:23d; DRB1* 03:05:02e-03:05:03e, 03:12e, 03:15:02e	DR3
	<b>DRB1* 03:01:01:01;</b> DRB1* 03:01:02d, 03:04:01d; DRB1* 03:01:01:02e-03:01:01:03e, 03:01:03e-03:01:28e, 03:04:02e, 03:11:01e	DR17
	DRB1* 03:16d, 03:22d; DRB1* 03:09e, 03:13e, 03:18e-03:20e, 03:24e-03:25:01e, 03:26e, 03:28e, 03:30e-03:37e, 03:39e, 03:43e-03:48e, 03:50e-03:52e, 03:54e-03:64e, 03:66e-03:73e, 03:77e-03:86e, 03:89e, 03:91e, 03:93e-03:101e, 03:104e, 03:106e-03:114e, 03:116e-03:117e, 03:120e-03:124e, 03:127e-03:130e, 03:132e-03:139e, 03:141e-03:153e, 03:156Ne-03:158e	-
DRB1*03	DRB1* 03:06d, 03:23d; DRB1* 03:12e, 03:15:02e	DR3
	<b>DRB1* 03:01:01:01;</b> DRB1* 03:01:02d, 03:04:01d; DRB1* 03:01:01:02e-03:01:01:03e, 03:01:03e-03:01:28e, 03:04:02e, 03:11:01e	DR17
	DRB1* 03:16d, 03:22d; DRB1* 03:13e, 03:18e-03:20e, 03:25:01e, 03:26e, 03:28e, 03:30e-03:34e, 03:36e-03:37e, 03:39e, 03:42e-03:48e, 03:50e-03:52e, 03:54e-03:56e, 03:58e-03:62e, 03:64e, 03:66e-03:73e, 03:77e-03:80e, 03:82e-03:87e, 03:89e, 03:91e, 03:93e-03:96e, 03:98e-03:100e, 03:104e, 03:106e-03:114e, 03:116e-03:117e, 03:121e, 03:123e-03:124e, 03:127e-03:129e, 03:132e-03:139e, 03:141e-03:153e, 03:156Ne-03:158e	-

*This genotype consists of alleles from a single group.*

**This genotype was chosen as the most likely; cannot exclude one or more rare genotypes.**

*Notice: One or more genotypes consists of alleles from a single group.  
For your information, there are additional alleles which are not detected by any assay in this test.*

#### HLA-DRB345

GROUP	ALLELES	ANTIGEN
DRB3*01	DRB3* 01:02d-01:03d, 01:04e-01:05e, 01:08e-01:09e, 01:11e-01:40Ne, 01:42e-01:56e	-
	DRB3* 01:01:02:01; DRB3* 01:01:02:02e-01:01:08e, 01:06e-01:07e, 01:10e	DR52

#### HLA-DQA1

GROUP	ALLELES	ANTIGEN
DQA1*05	DQA1* 05:01:01:01, 05:03:01:01, 05:05:01:01, 05:08; DQA1* 05:02d, 05:09d; DQA1* 05:01:01:02e-05:01:04e, 05:03:01:02e-05:04e, 05:05:01:02e-05:07e, 05:11e-05:14e	-
DQA1*05	DQA1* 05:01:01:01, 05:03:01:01, 05:05:01:01, 05:08; DQA1* 05:02d, 05:09d; DQA1* 05:01:01:02e-05:01:04e, 05:03:01:02e-05:04e, 05:05:01:02e-05:07e, 05:11e-05:14e	-
<i>This genotype consists of alleles from a single group.</i>		

*For your information, there are additional alleles which are not detected by any assay in this test.*

#### HLA-DQB1

GROUP	ALLELES	ANTIGEN
DQB1*02	DQB1* 02:01:01, 02:02:01:01, 02:03:01; DQB1* 02:01:02e-02:01:31e, 02:02:01:02e-02:02:09e, 02:03:02e	DQ2
	DQB1* 02:04e-02:53Qe, 02:55e-02:140e	-
DQB1*02	DQB1* 02:01:01, 02:02:01:01, 02:03:01; DQB1* 02:01:02e-02:01:31e, 02:02:01:02e-02:02:09e, 02:03:02e	DQ2
	DQB1* 02:04e-02:53Qe, 02:55e-02:140e	-
<i>This genotype consists of alleles from a single group.</i>		

*For your information, there are additional alleles which are not detected by any assay in this test.*

#### HLA-DPA1

GROUP	ALLELES	ANTIGEN
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<b>DPA1*02</b>	<b>DPA1* 02:01:01:01, 02:07:01:01;</b> DPA1* 02:01:01:02e-02:06e, 02:07:01:02e-02:12e	-
<b>DPA1*02</b>	<b>DPA1* 02:01:01:01, 02:07:01:01;</b> DPA1* 02:01:01:02e-02:06e, 02:07:01:02e-02:12e	-
<i>This genotype consists of alleles from a single group.</i>		

*For your information, there are additional alleles which are not detected by any assay in this test.*

## HLA-DPB1

EPITYPE	ALLELES	HVR-A	HVR-B	HVR-C	HVR-D	HVR-E	HVR-F
<b>EDP01</b>	<b>DPB1* 01:01:01:01, 01:01:02:01;</b> DPB1* 01:01:01:02e-01:01:01:10e, 01:01:02:02e-01:01:04e, 01:01:06e / DPB1* 118:01e / DPB1* 127:01e / DPB1* 159:01Ne / DPB1* 220:01e / DPB1* 267:01e / DPB1* 326:01e / DPB1* 327:01e / DPB1* 346:01e / DPB1* 417e / DPB1* 481:01e / DPB1* 483:01e / DPB1* 542:01e / DPB1* 543:01e / DPB1* 616:01e / DPB1* 632:01e / DPB1* 667:01e / DPB1* 733:01e / DPB1* 800:01Ne / DPB1* 807:01e / DPB1* 810:01e / DPB1* 853:01e / DPB1* 862:01Ne / DPB1* 866:01Ne / DPB1* 879e / DPB1* 931:01e	VYQG	EEYA	AAE	ILEEK	V	DEAV
<b>EDP01</b>	<b>DPB1* 01:01:01:01, 01:01:02:01;</b> DPB1* 01:01:01:02e-01:01:01:10e, 01:01:02:02e-01:01:04e, 01:01:06e / DPB1* 118:01e / DPB1* 127:01e / DPB1* 159:01Ne / DPB1* 220:01e / DPB1* 267:01e / DPB1* 326:01e / DPB1* 327:01e / DPB1* 346:01e / DPB1* 481:01e / DPB1* 483:01e / DPB1* 542:01e / DPB1* 543:01e / DPB1* 616:01e / DPB1* 632:01e / DPB1* 667:01e / DPB1* 733:01e / DPB1* 800:01Ne / DPB1* 807:01e / DPB1* 810:01e / DPB1* 853:01e / DPB1* 862:01Ne / DPB1* 866:01Ne / DPB1* 879e / DPB1* 931:01e	VYQG	EEYA	AAE	ILEEK	V	DEAV

*This genotype consists of alleles from a single group.*  
*This epitope was AUTOMATICALLY chosen because it is the only one which does not require a rare allele.*

**This genotype was chosen as the most likely; cannot exclude one or more rare genotypes.**

*Notice: One or more genotypes consists of alleles from a single group.*  
*For your information, there are additional alleles which are not detected by any assay in this test.*

## SESSION HISTORY

10/8/2019 5:58 AM Jovanne Cierras created this session using SureTyper version 6.1.2 build .

10/8/2019 5:58 AM Jovanne Cierras modified the following patient information:

- Sample ID:19-029467
- Patient ID:AGJG190
- Patient Name:AGJG190, DECEASED

10/8/2019 Jovanne Cierras modified the following kit information:

5:58 AM

- Kit Exp Date: 2020-07-31

10/8/2019 5:58 AM Jovanne Cierras loaded dissociation data for tray 1 (plate ID SX291901-BUV) from file 'K3749-CR\_SX291901-BUV\_19-029467.txt'.

10/8/2019 5:58 AM Jovanne Cierras analyzed this session, and according to the current system preference, SureTyper automatically chose the ambiguous rare test call:  
EDP\*01 EDP\*01

Notice: Cannot exclude other combinations. Review all results.

10/8/2019 5:58 AM Jovanne Cierras analyzed this session, and according to the current system preference, SureTyper automatically chose the ambiguous rare test call:  
DRB1\*03 DRB1\*03 → DR17 DR17

Notice: Cannot exclude other combinations. Review all results.

10/8/2019 5:58 AM Jovanne Cierras analyzed this session, and according to the current system preference, SureTyper automatically chose the ambiguous rare test call:  
A\*01 A\*03 → A1 A3

Notice: Cannot exclude other combinations. Review all results.

10/8/2019 5:58 AM Jovanne Cierras analyzed this session, and according to the current system preference, SureTyper automatically chose the ambiguous rare test call:  
B\*07 B\*08 → B7 B8

Notice: Cannot exclude other combinations. Review all results.

10/8/2019 5:58 AM Jovanne Cierras analyzed this session, and according to the current system preference, SureTyper automatically chose the ambiguous rare test call:  
B\*07 B\*08 → B7 B8

Notice: Cannot exclude other combinations. Review all results.

10/8/2019 5:58 AM Jovanne Cierras analyzed this session using SureTyper version 6.1.2 build with the following set of system preferences:

- For new sessions, use the MOST CURRENT allele database release.
- DO display the phenotype as the genotype group for Cw12, Cw14, Cw15, Cw16, Cw17, Cw18.
- For HLA-DQA1 typings, present the phenotype same as the genotype.
- For HLA-DPA1 typings, present the phenotype same as the genotype.
- DO present a warning if haplotypes are inconsistent.
- DO present a warning if the DNA Quality Control test does not pass.
- DO present a warning if the No Template Control test does not pass.
- When a reaction pattern cannot be explained by any combination of alleles, DO NOT ask to attempt to perform what-if pattern analysis.
- In case of an "incomplete" test result, DO automatically choose the only valid assignment.
- When the genotype result requires a rare allele assignment, DO ask to attempt to perform what-if pattern analysis.
- DO perform HaploCheck analysis when possible.
- In case of an "ambiguous rare" test result, DO automatically choose the only valid test call that does not require the assignment of a rare allele.

The results for each test were:

- HLA-A: A\*01 A\*03 → A1 A3 (auto)



- HLA-B: B\*07 B\*08 → B7 B8 (auto)
- Bw: Bw6 Bw6
- HLA-C: C\*07 C\*07 → Cw7 Cw7
- HLA-DRB1: DRB1\*03 DRB1\*03 → DR17 DR17 (auto)
- HLA-DRB345: DRB3\*01 → DR52
- HLA-DQA1: DQA1\*05 DQA1\*05 → DQA1\*05 DQA1\*05
- HLA-DQB1: DQB1\*02 DQB1\*02 → DQ2 DQ2
- HLA-DPA1: DPA1\*02 DPA1\*02 → DPA1\*02 DPA1\*02
- HLA-DPB1: EDP01 EDP01 (auto)
- DQC: Pass
- NTC: Pass

Notice: Cannot exclude other combinations. Review all results.

10/8/2019 5:59 AM Jovanne Cierras modified the following patient information:

10/8/2019 5:59 AM Jovanne Cierras updated the session notes. Now they read:

"The + sign indicates the presence of additional alleles of DPB1\* that cannot be ruled out. The detailed report can be found in the attachment section in UNET. "

10/8/2019 5:59 AM Jovanne Cierras entered the following report information:

- Sample Date: 10/08/2019
- Test Date: 10/8/2019

10/8/2019 5:59 AM Jovanne Cierras made the following laboratory assignments:

- HLA-A: A1 A3
- HLA-B: B7 B8
- Bw: Bw6 Bw6
- HLA-C: Cw7 Cw7
- HLA-DPA1: DPA1\*02 DPA1\*02
- HLA-DPB1: DPB1\*01
- HLA-DQA1: DQA1\*05 DQA1\*05
- HLA-DQB1: DQ2 DQ2
- HLA-DRB1: DR17 DR17
- HLA-DRB345: DR52

## REFERENCES

SureTyper™ makes use of information from the HLA/IMGT database. We acknowledge such use with the following citations:

Robinson J, Waller MJ, Fail SC, McWilliam H, Lopez R, Parham P, Marsh SGE  
**The IMGT/HLA database**

*Nucleic Acids Research* (2009), **37**:D1013-7

Robinson J, Malik A, Parham P, Bodmer JG, Marsh SGE  
**IMGT/HLA - a sequence database for the human major histocompatibility complex**

SureTyper also makes use of HLA information from:

R. Holdsworth, C. K. Hurley, S. G. E. Marsh, M. Lau, H. J. Noreen, J. H. Kempenich, M. Setterholm, & M. Maier  
**The HLA dictionary 2008: a summary of HLA-A, -B, -C, -DRB1/3/4/5, and -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR, and -DQ antigens**

*Tissue Antigens* (2009), **73**:95-170

Cano, P. et al.

**Common and well-documented HLA alleles: report of the ad-hoc committee of the American Society for Histocompatibility and Immunogenetics.**

*Human Immunology* (2007), **168**:392-417

Mack, S. et al.

**Common and well-documented HLA alleles: 2012 update to the CWD catalogue.**

*Tissue Antigens* (2013), **81**:194-203

NMDP web page:

**High-Resolution HLA Alleles and Haplotypes in the US Population**

[http://bioinformatics.nmdp.org/HLA/Haplotype\\_Frequencies/High\\_Res\\_HLA\\_Alleles\\_US\\_Pop/High-Resolution\\_HLA\\_Alleles\\_and\\_Haplotypes\\_in\\_the\\_US\\_Population.aspx](http://bioinformatics.nmdp.org/HLA/Haplotype_Frequencies/High_Res_HLA_Alleles_US_Pop/High-Resolution_HLA_Alleles_and_Haplotypes_in_the_US_Population.aspx)

For additional detail:

Maier, M., Gragert, L., Klitz, W.

**High resolution HLA alleles and haplotypes in the US population.**

*Human Immunology* (2007), **68**:779-788

Bodmer, J.G., et al.

**Nomenclature for factors of the HLA system, 1991.**

*Tissue Antigens* (1992) **39**:161-173

IMGT Repertoire (MH) web page:

**Correspondence between serological DR families and HLA-DRB gene and allele: main haplotypes**

[http://www.imgt.org/IMGTrepertoireMHC/LocusGenes/nomenclatures/human/MHC/hla\\_correspondance\\_dr\\_drb.html](http://www.imgt.org/IMGTrepertoireMHC/LocusGenes/nomenclatures/human/MHC/hla_correspondance_dr_drb.html)

