

Jewish Hospital Histocompatibility Laboratory

200 Abraham Flexner Way

Louisville, KY 40202

PH 502-587-4373 / FAX 502-587-4504

Tiffany Roberts, PhD, DABCC, DBHI, Director

TEST INFO

Patient ID: AGID359

Sample ID: 19-028982

Kit Name: LinkSēq HLA
ABCDRDQDP+

Patient Name: AGID359,
DECEASED

Sample Date: 09/04/2019

Kit Lot #: K3749-CR

Test Date: 9/5/2019

Plate 1 ID: SX291901-BVK

Kit Exp Date: 2020-07-31

SUMMARY

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

TEST	GENOTYPE	PHENOTYPE
HLA-A	A*01 A*31	A1 A31
HLA-B	B*08 B*40	B8 B60
HLA-DRB1	DRB1*04 DRB1*13	DR4 DR13
HLA-DQA1	DQA1*01 DQA1*03	DQA1*01 DQA1*03
HLA-DPA1	DPA1*01 DPA1*01	DPA1*01 DPA1*01

TEST	GENOTYPE	PHENOTYPE
HLA-C	C*03 C*07	Cw10 Cw7
Bw	-	Bw6 Bw6
HLA-DRB345	DRB3*02 DRB4*01	DR52 DR53
HLA-DQB1	DQB1*03 DQB1*06	DQ8 DQ6

EPITYPE	ALLELES	HVR-A	HVR-B	HVR-C	HVR-D	HVR-E	HVR-F
EDP06	DPB1* 06:01:01:01; DPB1* 06:01:01:02e-06:01:05e / DPB1* 64:01Ne / DPB1* 208:01e / DPB1* 662:01e / DPB1* 737:01e	VYQL	EEFV	DED	LLEEE	M	DEAV
EDP06	DPB1* 06:01:01:01; DPB1* 06:01:01:02e-06:01:05e / DPB1* 64:01Ne / DPB1* 208:01e / DPB1* 662:01e / DPB1* 737:01e	VYQL	EEFV	DED	LLEEE	M	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.*

(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 A31**
HLA-C: **Cw10 Cw7**
HLA-DQA1: **DQA1*01 DQA1*03**
HLA-DPA1: **DPA1*01 DPA1*01**

HLA-B: **B8 B60**
HLA-DRB1: **DR4 DR13**
HLA-DQB1: **DQ8 DQ6**
HLA-DPB1: **DPB1*06:01+**
DPB1*06:01+

Bw: **Bw6 Bw6**
HLA-DRB345: **DR52 DR53**

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; A* 01:01:01:03e-01:01:25e, 01:01:27e-01:01:55e, 01:01:57e-01:01:101e, 01:08e	A1
	<i>A* 01:04:01:01Nd;</i> A* 01:01:01:02Ne, 01:04:01:02Ne, 01:11Ne, 01:15Ne-01:16Ne, 01:18Ne, 01:22Ne, 01:27Ne	Null
	<i>A* 01:06d, 01:09:01:01d, 01:17d, 01:25d;</i> A* 01:09:01:02e-01:09:02e, 01:14e, 01:23e-01:24e, 01:28e-01:65e, 01:67:01e, 01:68e, 01:70e-01:72e, 01:74e-01:88:01e, 01:89e-01:94e, 01:96e-01:101e, 01:103e-01:126e, 01:128e-01:129e, 01:131e-01:135e, 01:137e-01:175e, 01:177e-01:191e, 01:193e, 01:195e-01:199e, 01:201e-01:202e, 01:204e-01:235e, 01:237e-01:243e, 01:245e-01:286e, 01:288e, 01:290Ne-01:297e	-
A*31	A* 31:01:02:01; <i>A* 31:02d, 31:12d;</i> A* 31:01:02:02e-31:01:33e, 31:05e	A31
	A* 31:14Ne	Null
	<i>A* 31:06d, 31:09d, 31:11d, 31:13d, 31:15d-31:16d, 31:18d, 31:20d, 31:26d;</i> A* 31:17e, 31:19e, 31:22e-31:25e, 31:27e-31:34e, 31:36e-31:43e, 31:45e-31:65e, 31:69e-31:78e, 31:80e-31:88e, 31:90e-31:114e, 31:116e-31:122e, 31:124e-31:149Ne	-

HLA-B

GROUP	ALLELES	ANTIGEN
B*08	B* 08:01:01:01; <i>B* 08:02d, 08:07d, 08:18d;</i> B* 08:01:01:02e-08:01:48e, 08:10e, 08:15e, 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, 08:14e, 08:20:02e, 08:22e, 08:24e, 08:27e-08:28e, 08:31e, 08:33e-08:34e, 08:36e-08:39e, 08:41e-08:48e, 08:50e-08:53e, 08:57e-08:61e, 08:63e-08:64e, 08:66e-08:78e, 08:80e-08:83e, 08:85e-08:86Ne, 08:90e-08:93e, 08:95e-08:101e, 08:103e-08:106e, 08:108e-08:109e, 08:111e-08:117e, 08:119e-08:121e, 08:124e-08:128e, 08:130e-08:131e, 08:134e-08:145e, 08:147e-08:150e, 08:152e-08:154e, 08:157e-08:164e, 08:166e-08:170e, 08:172e-08:174e, 08:176e-08:179e, 08:182e-08:183e, 08:185e-08:204e, 08:206e-08:224e	-
B*40	B* 40:01:02:01; <i>B* 40:10:01:01d;</i> B* 40:01:01e, 40:01:02:02e-40:01:05e, 40:01:07e-40:01:16e, 40:01:18e-40:01:60e, 40:10:01:02e-40:10:02e, 40:34e, 40:52e, 40:54e	B60
	<i>B* 40:22Nd</i>	Null
	<i>B* 40:30d, 40:43d, 40:114:01d;</i> B* 40:33e, 40:36e, 40:38e, 40:42e, 40:49e, 40:55e, 40:62e, 40:65e-40:67e, 40:69e, 40:73e, 40:76e, 40:79e, 40:81e, 40:84e, 40:87e-40:88e, 40:100e-40:102e, 40:108e, 40:112e-40:113e, 40:114:02e, 40:116e-40:118Ne, 40:123e, 40:125e-40:126e, 40:128e, 40:134e-40:135e, 40:138e-40:141e, 40:146e-40:147e, 40:150e-40:156e, 40:168e, 40:171e-40:172e, 40:175e, 40:179e, 40:182e, 40:186e-40:188e, 40:191e-40:197e, 40:204e, 40:207e-40:208e, 40:212e-40:213e, 40:215e-40:218e, 40:221e-40:223e, 40:227e-40:228e, 40:233e-40:236e, 40:238e-40:242e, 40:245e, 40:247e, 40:249e-40:253e, 40:257e-40:264e, 40:272e-40:273e, 40:277e-40:278e, 40:280e-40:282e, 40:285e-40:286Ne, 40:288e, 40:298e-40:301e, 40:308e, 40:310e, 40:312e, 40:315e-40:316e, 40:319e, 40:321e, 40:323e, 40:325e-40:329e,	-

40:332e-40:333e, 40:336e, 40:338Ne-40:339e, 40:344e, 40:346e, 40:353e, 40:357e-40:358e,
 40:360e, 40:367e-40:368e, 40:370e, 40:372Ne, 40:379e-40:383e, 40:385e-40:386e,
 40:391e-40:397e, 40:400e-40:404e, 40:406e-40:407e

Bw

	ALLELES	ANTIGEN
Bw6	<p>B* 08:01:01:01 / B* 40:01:02:01; <i>B* 08:07d, 08:13d, 08:18d, 08:20:01d, 08:35d / B* 40:10:01:01d, 40:22Nd, 40:30d, 40:43d, 40:114:01d;</i> B* 08:01:01:02e-08:01:48e, 08:05e, 08:08Ne, 08:10e-08:11e, 08:14e-08:15e, 08:19Ne, 08:20:02e, 08:22e, 08:24e, 08:27e-08:31e, 08:33e, 08:36e-08:39e, 08:41e-08:48e, 08:50e-08:51e, 08:53e, 08:57e-08:61e, 08:63e-08:64e, 08:66e-08:77e, 08:80e-08:83e, 08:85e-08:86Ne, 08:90e-08:93e, 08:95e-08:101e, 08:103e-08:106e, 08:108e-08:109e, 08:111e-08:116e, 08:119e-08:121e, 08:124e-08:125e, 08:127e-08:128e, 08:130e-08:131e, 08:134e-08:145e, 08:147e-08:150e, 08:152e-08:154e, 08:157e-08:164e, 08:166e-08:170e, 08:172e-08:174e, 08:176e-08:179e, 08:182e-08:183e, 08:185e-08:204e, 08:206e-08:215Ne, 08:217e-08:224e / B* 40:01:01e, 40:01:02:02e-40:01:05e, 40:01:07e-40:01:16e, 40:01:18e-40:01:60e, 40:10:01:02e-40:10:02e, 40:33e-40:34e, 40:36e, 40:38e, 40:42e, 40:49e, 40:52e, 40:54e-40:55e, 40:62e, 40:65e-40:67e, 40:69e, 40:73e, 40:76e, 40:79e, 40:81e, 40:84e, 40:87e-40:88e, 40:100e-40:102e, 40:108e, 40:112e-40:113e, 40:114:02e, 40:116e, 40:118Ne, 40:123e, 40:125e-40:126e, 40:128e, 40:134e-40:135e, 40:138e-40:141e, 40:146e-40:147e, 40:150e-40:156e, 40:168e, 40:171e-40:172e, 40:175e, 40:179e, 40:182e, 40:186e-40:187e, 40:191e-40:197e, 40:204e, 40:207e-40:208e, 40:212e-40:213e, 40:215e-40:218e, 40:221e-40:223e, 40:227e-40:228e, 40:233e-40:236e, 40:238e-40:242e, 40:245e, 40:247e, 40:249e-40:253e, 40:257e-40:264e, 40:272e-40:273e, 40:277e-40:278e, 40:280e-40:282e, 40:285e-40:286Ne, 40:288e, 40:298e-40:301e, 40:308e, 40:310e, 40:312e, 40:315e-40:316e, 40:319e, 40:321e, 40:323e, 40:325e-40:329e, 40:332e-40:333e, 40:336e, 40:338Ne-40:339e, 40:344e, 40:346e, 40:353e, 40:357e-40:358e, 40:360e, 40:367e-40:368e, 40:370e, 40:372Ne, 40:379e-40:383e, 40:385e-40:386e, 40:391e-40:393e, 40:395e-40:397e, 40:400e-40:404e, 40:406e-40:407e</p>	Bw6

HLA-C

GROUP	ALLELES	ANTIGEN
C*03	<p><i>C* 03:10d, 03:40:01d;</i> C* 03:24e, 03:40:03e-03:40:04e</p>	Cw3
	<p>C* 03:02:01, 03:04:01:01, 03:04:02, 03:06:01; <i>C* 03:02:02:01d;</i> C* 03:02:02:02e-03:02:22e, 03:04:01:02e-03:04:01:13e, 03:04:03e-03:04:24e, 03:04:26e, 03:04:28e-03:04:58e, 03:04:60e-03:04:73e, 03:06:02e, 03:26e, 03:28e</p>	Cw10
	<p><i>C* 03:08d, 03:35:01d, 03:36d;</i> C* 03:23e, 03:29e, 03:32e-03:34e, 03:35:02e, 03:37e-03:38e, 03:41e, 03:44e, 03:46e-03:48e, 03:51e, 03:54e, 03:57e, 03:60e-03:61e, 03:63e-03:65e, 03:70e, 03:72e-03:74e, 03:77e-03:78e, 03:82e, 03:84e, 03:87:02e, 03:90e-03:91e, 03:93e, 03:95e, 03:98e-03:101e, 03:104e-03:111e, 03:114e-03:115e, 03:118e, 03:121Ne, 03:123e, 03:125e, 03:128e-03:131e, 03:134e-03:138e, 03:140e, 03:142e, 03:145e-03:149e, 03:153e-03:157e, 03:159e-03:160e, 03:162e, 03:164e, 03:166e, 03:169Qe-03:170e, 03:172e-03:174e, 03:178e-03:181e, 03:183e-03:184e, 03:186e, 03:190e-03:191e, 03:193e-03:194e, 03:197e-03:198e, 03:200e-03:201Ne, 03:208Ne-03:213e, 03:215e-03:216e, 03:218e-03:219e, 03:221e-03:222e, 03:224Ne-03:226e, 03:232e-03:236e, 03:238e-03:239e, 03:244Qe-03:248e, 03:250e, 03:252e, 03:255e-03:261e, 03:263:03e-03:266e, 03:269e-03:270e, 03:272e, 03:277Ne-03:279e, 03:281e-03:283e, 03:286e-03:287e, 03:294e, 03:298e-03:299e, 03:301e, 03:303e, 03:305e-03:306e, 03:309e-03:311e, 03:313e-03:315e, 03:317e-03:318Ne, 03:322e-03:323Ne, 03:326e, 03:328e-03:330e, 03:332e-03:334e, 03:337e-03:340e, 03:342e-03:343e, 03:347e-03:350e, 03:353e-03:355e, 03:358e-03:359e, 03:362e, 03:365e-03:366Ne, 03:369e, 03:371e, 03:373e, 03:376e, 03:379e, 03:381e-03:382e, 03:384e-03:385e, 03:387e-03:388e, 03:390e-03:397e, 03:399e-03:401e, 03:403e-03:406e, 03:408e-03:412e, 03:415e, 03:417e, 03:419e-03:420e, 03:423e-03:426e, 03:429e, 03:431e,</p>	-

	03:434e-03:435e, 03:437e-03:439e, 03:441e-03:443e, 03:445Ne-03:446Ne, 03:448Qe-03:449Ne, 03:452e-03:456e, 03:458e-03:459e	
C*07	C* 07:01:01:01, 07:02:01:01, 07:04:01:01, 07:06:01:01; <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-07:01:48e, 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
	<i>C* 07:32Nd;</i> C* 07:33Ne	Null
	C* 07:18:01:01; <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, 07:17:04e, 07:18:01:02e-07:18:03e, 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-07:63e, 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, 07:141:02e-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, 07:343e-07:346e, 07:348e-07:363e, 07:365e-07:389e, 07:391e-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	-

HLA-DR

GROUP	ALLELES	ANTIGEN
DRB1*04	DRB1* 04:01:01:01, 04:02:01, 04:03:01:01, 04:04:01, 04:05:01:01, 04:06:01, 04:07:01:01, 04:08:01, 04:09-04:10:01, 04:11:01, 04:17:02; <i>DRB1* 04:03:02d, 04:13d-04:14d, 04:16d, 04:19d, 04:23d, 04:25d-04:26d;</i> DRB1* 04:01:01:02e-04:01:21e, 04:02:02e-04:02:06e, 04:03:01:02e, 04:03:03e-04:03:15e, 04:04:02e-04:04:15e, 04:05:01:02e-04:05:20e, 04:06:02e-04:06:07e, 04:07:01:02e-04:07:06e, 04:08:02e-04:08:04e, 04:10:02e-04:10:03e, 04:11:02e-04:11:05e, 04:17:01e, 04:20e-04:21e, 04:24e, 04:28e-04:29e, 04:31e-04:32e, 04:42e, 04:64e	DR4
	DRB1* 04:38; <i>DRB1* 04:12d, 04:18d, 04:33d, 04:35d, 04:40d-04:41d, 04:50d-04:51d, 04:54d;</i> DRB1* 04:27e, 04:30e, 04:36e-04:37e, 04:39e, 04:43e-04:49e, 04:52e-04:53e, 04:55e-04:60e, 04:62e, 04:65e, 04:67e-04:109e, 04:111e-04:137e, 04:139e-04:144e, 04:146e-04:153e, 04:155e-04:159e, 04:162e-04:169e, 04:171e-04:210e, 04:212Ne-04:228e, 04:230e-04:252e, 04:254e-04:263e, 04:266Ne-04:272e	-
DRB1*13	DRB1* 13:01:01:01, 13:02:01:01; <i>DRB1* 13:01:03d, 13:08d, 13:16d, 13:19d, 13:36d;</i> DRB1* 13:01:01:02e-13:01:02e, 13:01:04e-13:01:26e, 13:02:01:02e-13:02:17e, 13:52e, 13:57e	DR13
	<i>DRB1* 13:31d, 13:39d-13:40d, 13:59d, 13:76d;</i> DRB1* 13:28e, 13:32e, 13:34e-13:35e, 13:51e, 13:64e-13:65e, 13:68e-13:69e, 13:72e-13:74e, 13:79e-13:80e, 13:83e-13:84e, 13:87e, 13:91e-13:93e, 13:97:01e, 13:98e-13:99e, 13:102e-13:103e, 13:105e-13:107e, 13:109e-13:110e, 13:112e-13:113Ne, 13:117e, 13:121e, 13:123e-13:128e, 13:130e-13:131e, 13:135e, 13:137Ne-13:143e, 13:145e, 13:147e-13:148e, 13:153e, 13:155e, 13:160e, 13:165e-13:166e, 13:168e, 13:171:02e, 13:173e, 13:177e, 13:182e, 13:184e-13:187e, 13:190e, 13:200Ne-13:202e, 13:204e-13:205e, 13:207e-13:213e, 13:215e, 13:218e, 13:220e-13:222e, 13:225e-13:226e, 13:233e-13:234e, 13:236e-13:245e, 13:250e-13:252Ne, 13:254e-13:275e	-

HLA-DRB345

GROUP	ALLELES	ANTIGEN
DRB3*02	<i>DRB3* 02:06d, 02:17d;</i> DRB3* 02:04e-02:05e, 02:12e-02:16e, 02:18e-02:19e, 02:21e-02:26e, 02:28e-02:36e, 02:39e-02:41e, 02:43e, 02:45e-02:49e, 02:51e-02:57e, 02:59e-02:69e, 02:71e-02:80Ne, 02:82e, 02:84e-02:87e	-
	DRB3* 02:01-02:02:01:01, 02:02:02d, 02:11d; DRB3* 02:02:01:02e-02:02:01:03e, 02:02:03e-02:02:16e, 02:07e-02:08e	DR52
DRB4*01	DRB4* 01:03:01:01, 01:03:03; <i>DRB4* 01:03:02d;</i> DRB4* 01:01:02e, 01:03:01:03e-01:03:01:08e, 01:03:04e-01:03:11e, 01:05e	DR53
	DRB4* 01:02; DRB4* 01:04e, 01:07e-01:22e, 01:24e-01:69e, 01:71Ne-01:74e, 01:76e-01:78e, 01:80Ne-01:86e	-

HLA-DQA1

GROUP	ALLELES	ANTIGEN
DQA1*01	DQA1* 01:01:01:01, 01:01:02, 01:02:01:01, 01:03:01:01, 01:04:01:01, 01:05:01; <i>DQA1* 01:02:02:01d;</i> DQA1* 01:01:01:02e-01:01:01:05e, 01:01:03e, 01:02:01:02e-01:02:01:10e, 01:02:02:02e-01:02:04e, 01:03:01:02e-01:03:01:08e, 01:04:01:02e-01:04:02e, 01:05:02e-01:21e	-
DQA1*03	DQA1* 03:01:01, 03:02:01:01, 03:03:01:01; DQA1* 03:01:03e, 03:02:01:02e, 03:03:01:02e-03:05e	-

HLA-DQB1

GROUP	ALLELES	ANTIGEN
DQB1*03	DQB1* 03:01:13e, 03:01:15e, 03:01:25e	DQ7
	DQB1* 03:02:01:01; <i>DQB1* 03:02:02d;</i> DQB1* 03:02:01:02e-03:02:01:06e, 03:02:03e-03:02:30e	DQ8
	DQB1* 03:07e-03:08e, 03:11e, 03:14e, 03:16e, 03:18e, 03:32e, 03:37e, 03:45e, 03:62e-03:64e, 03:66Ne-03:68e, 03:70e, 03:81e, 03:85e, 03:106e-03:107e, 03:110e, 03:125e, 03:130e, 03:132e, 03:138e, 03:146e, 03:153e, 03:161e, 03:172e, 03:174e-03:175e, 03:178e-03:179e, 03:185e, 03:189e-03:190e, 03:199e, 03:203e-03:205e, 03:210e-03:211e, 03:213Ne-03:215e, 03:220e, 03:223e-03:226e, 03:228e-03:229e, 03:233e, 03:237Ne, 03:240e, 03:245e, 03:247e, 03:251e, 03:259e, 03:261e, 03:263e, 03:265e, 03:269Ne, 03:273e-03:274e, 03:277e-03:279e, 03:287e, 03:289e, 03:295e-03:296e, 03:298e-03:301e, 03:308e, 03:310Ne, 03:315e, 03:320e-03:324e, 03:333e-03:334Ne, 03:339Ne, 03:343e-03:345e, 03:348e-03:349e, 03:352e	-
DQB1*06	DQB1* 06:11:02e-06:12e	DQ1
	DQB1* 06:03:01:01, 06:04:01, 06:08:01, 06:09:01:01; <i>DQB1* 06:05:01d;</i> DQB1* 06:01:14e, 06:01:19e, 06:02:07e, 06:02:11e, 06:03:01:02e-06:03:35e, 06:04:02e-06:04:12e, 06:05:02e, 06:08:02e-06:08:03e, 06:09:01:02e-06:09:10e, 06:14e, 06:25e	DQ6
	DQB1* 06:26Ne	Null
	<i>DQB1* 06:10d;</i> DQB1* 06:07e, 06:13e, 06:16e-06:18e, 06:21e-06:22e, 06:27e-06:32e, 06:34e, 06:36e, 06:38e-06:44e, 06:52e, 06:57e-06:60e, 06:62e-06:67e, 06:69e, 06:75Ne, 06:82e, 06:85e-06:94e, 06:98e, 06:106e, 06:110e, 06:118:01e-06:118:02e, 06:119e, 06:121e, 06:123e, 06:126e,	-

06:128e-06:130e, 06:133e-06:136e, 06:139e, 06:141e-06:145e, 06:148e, 06:151e,
 06:153:02e-06:156e, 06:158Ne, 06:160e, 06:162e, 06:164e-06:172e, 06:174e, 06:180e, 06:182e,
 06:184e-06:187e, 06:189e-06:191e, 06:193Ne-06:196e, 06:199e, 06:202e-06:204e,
 06:206e-06:207e, 06:210e, 06:212e, 06:217e-06:218e, 06:221e-06:223e, 06:230e-06:231e,
 06:233e-06:234e, 06:238e-06:239e, 06:241e, 06:244e, 06:247e-06:248e, 06:250e,
 06:252Ne-06:254e, 06:257e, 06:259e-06:261e, 06:264e-06:267e, 06:269e, 06:272e, 06:275e,
 06:278e-06:283e, 06:287e-06:288e, 06:290e-06:292e, 06:299e, 06:301e-06:302e

HLA-DPA1

GROUP	ALLELES	ANTIGEN
DPA1*01	DPA1* 01:03:01:01, 01:04; DPA1* 01:03:01:02e-01:03:07e, 01:05e-01:07e, 01:09e-01:10e, 01:12e, 01:14e-01:17e	-
DPA1*01	DPA1* 01:03:01:01, 01:04; DPA1* 01:03:01:02e-01:03:07e, 01:05e-01:07e, 01:09e-01:10e, 01:12e, 01:14e-01:17e	-

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-DPB1

EPITYPE	ALLELES	HVR-A	HVR-B	HVR-C	HVR-D	HVR-E	HVR-F
EDP06	DPB1* 06:01:01:01; DPB1* 06:01:01:02e-06:01:05e / DPB1* 64:01Ne / DPB1* 208:01e / DPB1* 662:01e / DPB1* 737:01e	VYQL	EEFV	DED	LLEEE	M	DEAV
EDP06	DPB1* 06:01:01:01; DPB1* 06:01:01:02e-06:01:05e / DPB1* 64:01Ne / DPB1* 208:01e / DPB1* 662:01e / DPB1* 737:01e	VYQL	EEFV	DED	LLEEE	M	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

9/5/2019 1:54 AM Jovanne Cierras created this session using SureTyper version 6.1.2 build .

9/5/2019 1:54 AM Jovanne Cierras modified the following patient information:

- Sample ID:19-028982
- Patient ID:AGID359
- Patient Name:AGID359, DECEASED

9/5/2019 1:54 AM Jovanne Cierras modified the following kit information:

- Kit Exp Date: 2020-07-31

9/5/2019 1:54 AM Jovanne Cierras loaded dissociation data for tray 1 (plate ID SX291901-BVK) from file 'K3749-CR_SX291901-BVK_19-028982.txt'.

9/5/2019 1:54 AM Jovanne Cierras analyzed this session, and according to the current system preference, SureTyper automatically chose the ambiguous rare test call:
EDP*06 EDP*06 → - -

Notice: Cannot exclude other combinations. Review all results.

9/5/2019 1:54 AM Jovanne Cierras analyzed this session, and according to the current system preference, SureTyper automatically chose the ambiguous rare test call:
C*03 C*07 → Cw10 Cw7

Notice: Cannot exclude other combinations. Review all results.

9/5/2019 1:54 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 NOT 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*31 → A1 A31
- HLA-B: B*08 B*40 → B8 B60
- Bw: Bw6 Bw6
- HLA-C: C*03 C*07 → Cw10 Cw7
- HLA-DRB1: DRB1*04 DRB1*13 → DR4 DR13
- HLA-DRB345: DRB3*02 DRB4*01 → DR52 DR53
- HLA-DQA1: DQA1*01 DQA1*03 → DQA1*01 DQA1*03
- HLA-DQB1: DQB1*03 DQB1*06 → DQ8 DQ6
- HLA-DPA1: DPA1*01 DPA1*01 → DPA1*01 DPA1*01
- HLA-DPB1: EDP06 EDP06 (auto)
- DQC: Pass
- NTC: Pass

Notice: Cannot exclude other combinations. Review all results.

9/5/2019 1:58 AM Jovanne Cierras entered the following report information:

- Sample Date: 09/04/2019
- Test Date: 9/5/2019

9/5/2019 Jovanne Cierras modified the following patient information:

1:58 AM

9/5/2019 Jovanne Cierras updated the session notes. Now they read:

1:58 AM

"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. "

9/5/2019 Jovanne Cierras made the following laboratory assignments:

1:58 AM

- HLA-A: A1 A31
- HLA-B: B8 B60
- Bw: Bw6 Bw6
- HLA-C: Cw10 Cw7
- HLA-DPA1: DPA1*01 DPA1*01
- HLA-DPB1: DPB1*06
- HLA-DQA1: DQA1*01 DQA1*03
- HLA-DQB1: DQ8 DQ6
- HLA-DRB1: DR4 DR13
- HLA-DRB345: DR52 DR53

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

Tissue Antigens (2000), **55**:280-287

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. Maiers

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

For additional detail:

Maiers, 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