

LIFECODES® HLA-SSO Typing

Immucor's fast, easy and accurate approach to HLA Typing

At Immucor, we are committed to deliver quality products that improve your laboratory's operations while also providing trusted results. Our HLA-SSO typing kits and MATCH IT!® DNA Typing Software offer speed and accuracy with a simplified approach using Luminex® xMAP® technology.



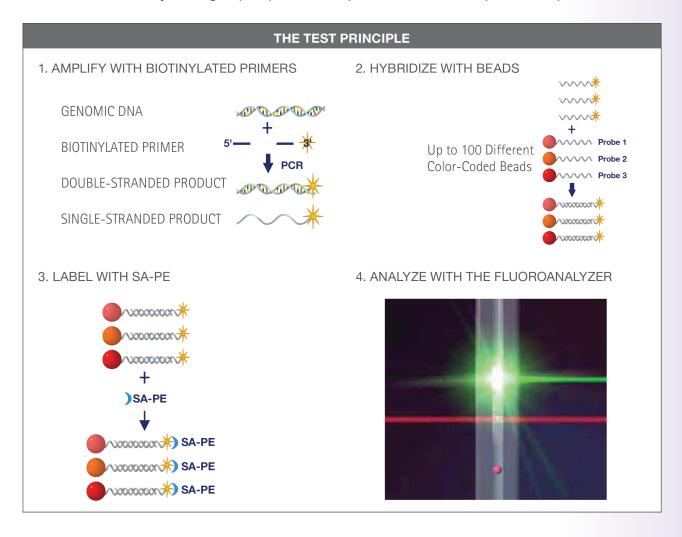


LIFECODES® SSO Typing Results in 2 hours!

LIFECODES SSO Typing kits offer short turn around time for use with deceased donors, a faster protocol for high volume laboratories, and a RAPID protocol to increase productivity in the HLA Laboratory.

- Simple 5 component kit configuration with a simple 3 step protocol
- LIFECODES Tag polymerase validated and included in kit
- HLA-A eRES, HLA-B eRES and HLA-DRB1 eRES kits contain a second bead mix for Enhanced Resolution
- Powered by Luminex® xMAP® Technology
- Analysis software automatically imports data from the Luminex® software

LIFECODES HLA-SSO Typing kits utilize sequence-specific oligonucleotides (SSOs) to identify which human leukocyte antigen (HLA) alleles are present in a PCR-amplified sample.









Results in two hours.

NO centrifugation or wash steps – reducing overall hands on time.

Master mix includes primers, dNTP's and PCR buffer – eliminating extra steps and consumables.

Automatic import of data into MATCH IT!® software – allowing for clear and easy to interpret results.

Description	Catalog Number	Quantity
LIFECODES HLA-A eRES SSO Typing Kit (IVD)	628913	50 tests
LIFECODES HLA-B eRES SSO Typing Kit (IVD)	628917	50 tests
LIFECODES HLA-C eRES SSO Typing Kit (IVD)	628921	50 tests
LIFECODES HLA-DRB1 eRES SSO Typing Kit (IVD)	628925	50 tests
LIFECODES HLA-DRB 3,4,5 SSO Typing Kit (IVD)	628927	50 tests
LIFECODES HLA-DQA1/B1 SSO Typing Kit (IVD)	628930	50 tests
LIFECODES HLA-DPA1/B1 SSO Typing Kit (IVD)	628936	50 tests
Streptavidin-PE	628511	1 mg/ml (85μL)
LIFECODES Taq Polymerase (IVD)	628075	125 units (25µL)





LIFECODES® KIR

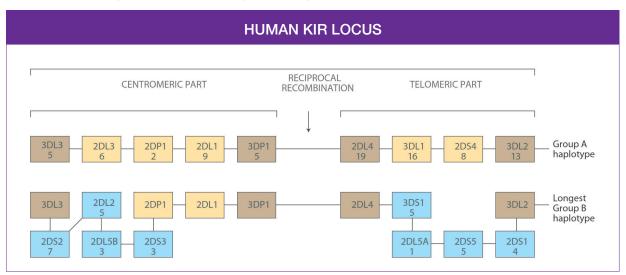
Natural killer (NK) cells are lymphocytes of the innate immune system that fight infection by producing cytokines and killing infected cells. Their functional activity is regulated by the interaction between their surface killer cell immunoglobulin-like receptors (KIR) and Class I HLA alleles expressed on the target cell. NK cells will contain more than one type of KIR on their surface and these receptors can be either inhibitory or activating in nature.

There are 14 KIR genes and two pseudogenes located in the leukocyte receptor complex (LRC) on chromosome 19q13.4. Human NK cells express various combinations of these 16 KIR genes with two common haplotypes: Group A, which has more inhibitory receptors and Group B, which has more activating receptors.

Description	Catalog Number	Quantity
LIFECODES KIR Typing Kit For Research Use Only. Not for Use in Diagnostic Procedures.	545110R	20 tests
LIFECODES Taq Polymerase General Purpose Reagent	628076	125 units (25µL)

Organization of the Human KIR Locus

The LIFECODES KIR SSO Typing kits utilize sequence-specific oligonucleotides (SSOs) to identify which KIR loci are present in a PCR amplified sample.



- Conserved genes are shown in **brown**.
- Genes that can be present in both group A and group B KIR haplotypes are shown in yellow.
- Genes and/or alleles that are specific to group B KIR haplotypes are shown in blue.

MATCHIT!

Introducing MATCH IT! DNA, a software designed specifically for streamlined HLA Typing analysis with faster import times than ever before.

Recent **Performance Optimizations** have reduced import time by 70%*.

The MATCH IT!®DNA software was designed specifically as an accessory to assist in the evaluation of test results from the LIFECODES HLA SSO portfolio.

Easy to use Analysis Software

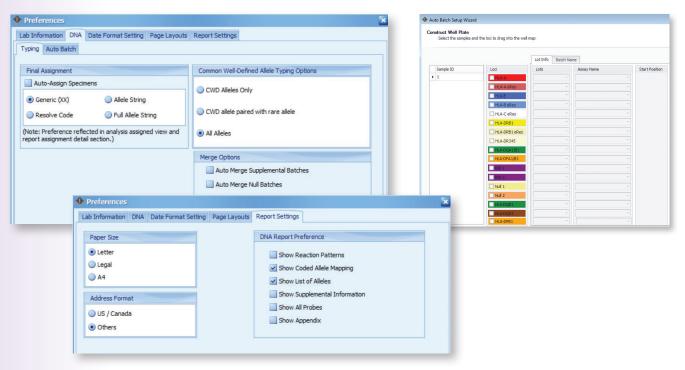
- Probe highlighting for easy review
- CIWD 3.0 list used to highlight Common and Intermediate alleles.
- Multiple Probe Graphing features
- Automatic import of Luminex data
- Options for server based or local database installation
- Remote support provided by Immucor support teams
- Multiple custom utilities available to manage import of data into various LIS



ASSISTIVE

CUSTOMIZABLE assignment options, page layouts, and reports fit everyone's needs!

AUTO BATCH WIZARD streamlines batch set up for all loci in a simple to use tool!

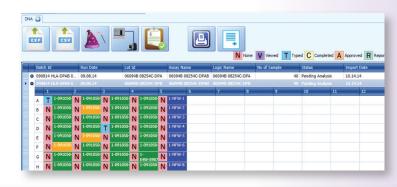




BATCH SNAPSHOT displays the status of each sample streamlining sample review by allowing users to approve all reported results for a batch.

The Sample Status is provided for each sample within a batch to track sample review, completion, approval and reporting.

Snapshot Summary provides the user with a summarized view of all typings of samples for a chosen batch.



41:01

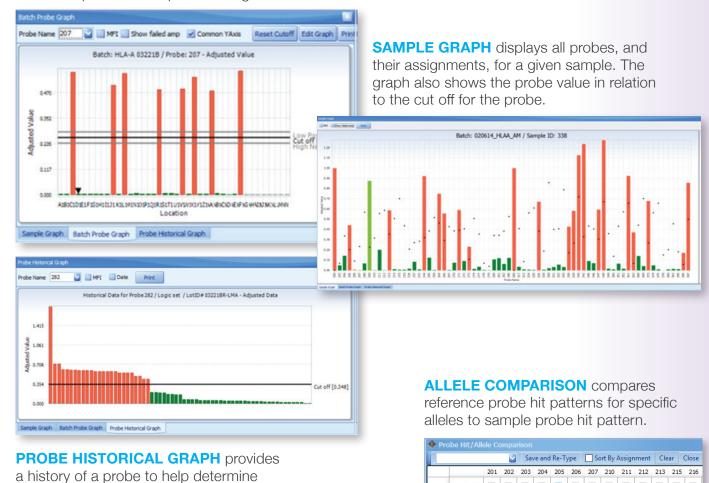
Sample ID	Well	Match Type	Final Typing AG1	Final Typing AG2	Serology AG1	Serology AG2	Comment	✓ Complete	Completed By	Completed Date	Approve	Approved By	Approved Date
B-091050-007	A1	Exact	07:XX	07:XX	Cw7,Null	Cw7,Null		▽	Lab Supervisor	04.06.21	V	Lab Supervisor	04.06.21
B-091050-040	B1	Exact						▽	Lab Supervisor	04.06.21	~	Lab Supervisor	04.06.21
B-091050-049	C1	Exact	04:XX	08:XX	Cw4,Null	Cw8,Null		▽	Lab Supervisor	04.06.21	✓	Lab Supervisor	04.06.21
B-091050-069	D1	Exact	02:XX	16:XX	Cw2,Null	Null		✓	Lab Supervisor	04.06.21	✓	Lab Supervisor	04.06.21
B-091050-061	E1	Exact	02:XX	02:XX	Cw2,Null	Cw2,Null		▽	Lab Supervisor	04.06.21	▽	Lab Supervisor	04.06.21
B-091050-094	F1	Exact	06:XX	08:XX	Cw6,Null	Cw8,Null		▽	Lab Supervisor	04.06.21	✓	Lab Supervisor	04.06.21

DETAILED

BATCH PROBE GRAPH provides ability to view and compare the performance of a probe for all samples to aid in probe changes.

probe behavior over a kit lot; this graph

may also be used for internal QC.









• EFFECTIVE

Multiple FINAL TYPING ASSIGNMENT options and report formats provide flexibility.

AG1	AG2	SE1		SE2
11:01:01	69:01	A11		A69(28)
11:12	69:01	A11		A69(28)
11:29	69:01	-	- A	
11:30	69:01	-		A69(28)
11:01:01	69:02	A11		-
11:12	69:02	A11		-
11:29	69:02	-	Assianmen	t Snapshot:
11:30	69:02	-	Locus	D ₄
11:01:02	69:01	A11	HLA-B	091120:
11:01:03	69:01	A11	HLA-C	0911201
			HLA-DRE3	0911201
11:01:05	69:01	A11	HLA-DRB4	09112014

Locus	Batch	AG1	AG2	SC1	SE2	Match Type	Merged
HLA-A	09112014 A Locus	60:XX	60:000	A60(20),A20,-,Null	AGO(20),Null,-,A20	Exact	No
HLA-B	09112014 B Locus	15:XX	\$8,000	871(70) (Bw6),-	B50(17) (9w4),-	Exact	No
HLA-C	09112014 C Locus	03±XX	06:XX	Cw10(w3),-	Cw6,-,Null	Exact	No
HLA-DRE1	09112014 DR Locus	03:000	12000	DR17(3),-,Null	DR12(5)	Exact	No
HLA-DRE3	09112014 DR345 Locus	02:000	02:000	DR52,-,Null	DR52,-,Null	Exact	No
HLA-DRB4	09112014 DR345 Locus					Exact	No
HLA-DRES	09112014 DR345 Locus					Exact	No

Assignment Details:

Locus Batch Name		Lot No	Expiration Date	IMGT				
HLA-A AG1	09112014 A Locus/LC4	03104A 09062B-LMA	12/31/2014	3.16.0				
A*68:01:01:01/68:01:01:02/68:01:03/68:01:05/68:01:05/68:01:07/68:01:08/68:01:09/68:01:10/68:01:14/68:01:18/68:01:18/68:01:19/58:01:20/68:02:01:01/68:02:01								
02/68/02/01/03/68/02/03/68/02/04/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/05/68/02/05/68/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/02/05/68/05/68/05/68/05/05/68/05/05/68/05/05/68/05/05/68/05/05/68/05/05/05/68/05/05/05/05/05/05/05/05/05/05/05/05/05/								
24 00 00 00 00 00 00 00 00 00 00 00 00 00								

HLA-A AG2	09112014 A Locus/LC4	03104A 09062B-LMA	12/31/2014	3.16.0				
A*68.C2 01.01/68.02.01.02/69.02.01.03/69.02.03/69.02.03/69.02.04/69.02.05/69.02.05/69.02.07/69.10/69.13.01/69.14/69.19N/69.25/69.20/69.29/69.39/69.40/59.44/69.39/69.40/59.40/69.39/69.30/								
HLA-B AG1 05112014 B Loxus/LC4 04144C 12153U-LMB 3/31/2015 3.16.0								

04144C 12153U-LMB

3/31/2016

Final Typing Assignments:

	5 5				
Loci	Batch	AG1	AG2	Match Type	Merged
HLA-A	09112014 A Locus	23:XX	24:XX	Exact	No
HLA-B	09112014 B Locus	35:XX	40:XX	Exact	No
HLA-C	09112014 C Locus	03:XX	04:XX	Exact	No
HLA-DRB1	09112014 DR Locus	08:XX	11:XX	Exact	No
HLA-DRB3	09112014 DR345 Locus	02:XX	02:XX	Exact	No
HLA-DRB4	09112014 DR345 Locus			Exact	No
HLA-DRB5	09112014 DR345 Locus			Exact	No
HLA-DQB1	09112014 DQ Locus	03:XX	03:XX	Exact	No

Batch Information:

Loci	Lot ID	Allele Database Version	Run Date	Comments	Completed By Date	Approved By Date
HLA-A	03104A 09062B-LMA	3.16.0	09/11/14	Run eRes	Lab Supervisor 10/15/14	Lab Supervisor 10/15/14
HLA-B	04144C 12153U-LMB	3.16.0	09/11/14		Lab Supervisor 09/16/14	Lab Supervisor 10/15/14
HLA-C	11193A 05283D-Ce	3.16.0	09/11/14		Lab Supervisor 10/15/14	Lab Supervisor 10/15/14
DRB1	01284B 11053B-DRB1	3.16.0	09/11/14	Run eRes.	Lab Supervisor 10/15/14	Lab Supervisor 10/15/14
DRB345	01104D 10193J-345	3.16.0	09/11/14	DR52	Lab Supervisor 10/15/14	Lab Supervisor 10/15/14
DQB	02044C 12113N-DQB	3.16.0	09/11/14	DQ7	Lab Supervisor 10/15/14	Lab Supervisor 10/15/14



3.16.0



For more information on these products or to check their regulatory status in your region, please contact your Transplant Business Manager or visit **www.immucor.com**.



www.immucor.com

