

INNO-LiPA HLA TYPING PRODUCTS

DNA line probe assays (LiPA) for allele group and higher resolution typing of HLA Class I and Class II



Puzzled by HLA?
Discover the full picture
with INNO-LiPA!



INNOGENETICS
BIOTECHNOLOGY FOR HEALTHCARE



Novo
Healthcare Ltd.

The INNO-LiPA kits

A complete set of user-friendly kits with interchangeable LiPA buffer components

HLA Class	INNO-LiPA HLA	Number of Probes	Resolution
I	A Update	43	Allele group (A*01 - A*80) <small>Probes were also selected to detect several null alleles.</small>
	B Update Plus	66	Allele group (B*07 - B*83) <small>Probes were also selected to detect several null alleles.</small>
	C	28	Allele group (Cw*01 - Cw*18)
II	DRB1 Plus	37	Allele group (DRB1*01 - DRB1*16)
	DRB decoder	62	Allelic (DRB1, DRB3, DRB4, DRB5)
	DQB1 Update	38	Allelic
	DPB	24	Allelic
	new DQA1	35	Allelic

The Update kits

To keep you at the cutting edge of HLA typing

■ Additional specific primers

INNO-LiPA HLA-DRB1 Plus and INNO-LiPA HLA-B Update Plus include additional specific primers to resolve the most frequent HLA-DRB1 and HLA-B ambiguities:

- for HLA-DRB1: DRB1*03,11,13,14
- for HLA-B: HLA-Bw4

■ One unique amplification protocol

for HLA-A, B, C, Bw4, DRB1, and DRB1*03,11,13,14



INNO-LiPA HLA CLASS I TYPING PRODUCTS

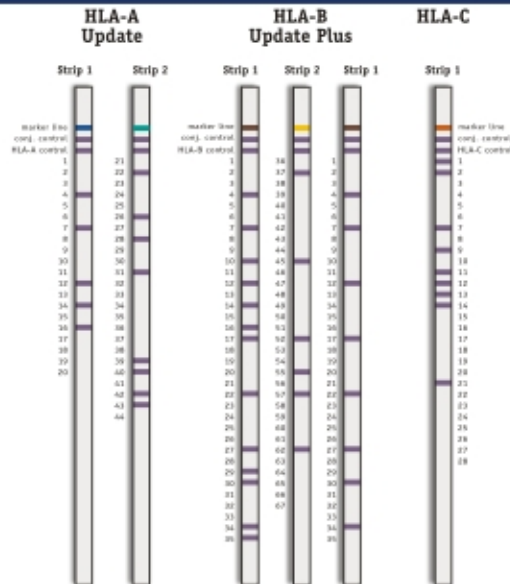
DNA line probe assays (LiPA) for allele group typing of HLA Class I

HLA Class I

INNO-LiPA HLA-A Update
INNO-LiPA HLA-B Update Plus
INNO-LiPA HLA C



Strip layout



Typing results

INNO-LiPA HLA-A Update	A*2407, A*2410
INNO-LiPA HLA-B Update Plus	B*1502, B*4901 or B*1513, B*5001
+ Bw4 amplification	B*1502, B*4901
INNO-LiPA HLA-C	Cw*0802/0804/0807, Cw*1801/1802

The INNO-LiPA Kit

INNO-LiPA HLA	Number of strips	Number of probes	Marker line
A Update	2	19	Blue
		24	Turquoise
B Update Plus	2	34	Brown
		32	Chrome yellow
C	1	28	Orange

The amplification kit

Amplification	Exons amplified	Size band	
HLA-A Multiplex	1, 2, 3, 4	578 (1,2), 436, 377 bp	
HLA-B Update Plus	HLA-B Multiplex	2, 3, 4	555, 436, 323 bp
	HLA-Bw4	2	354 bp
HLA-C	2, 3	904 bp	

Presentation

Art. no.

	INNO-LiPA HLA-A Update	20 tests/kit	80332
New	INNO-LiPA HLA-A Update	100 tests/kit	80688
	INNO-LiPA HLA-B Update Plus	20 tests/kit	80634
New	INNO-LiPA HLA-B Update Plus	100 tests/kit	80686
	INNO-LiPA HLA-C	20 tests/kit	80342

INNO-LiPA HLA CLASS II TYPING PRODUCTS

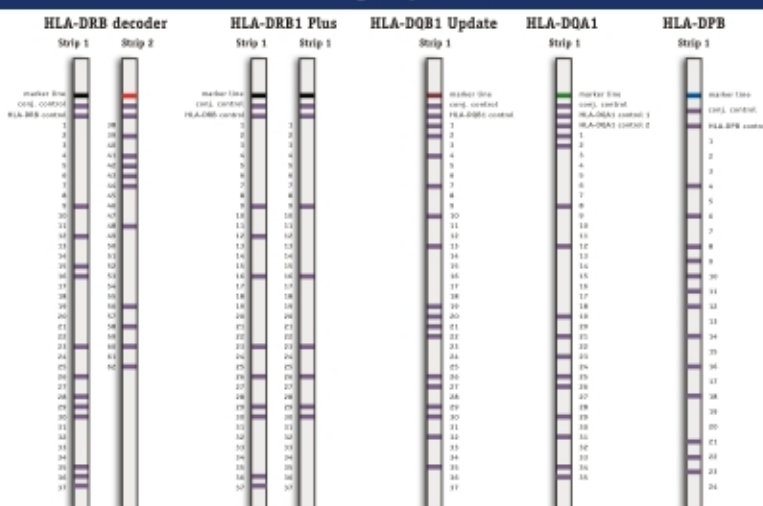
DNA line probe assays (LiPA) for allele group and higher resolution typing of HLA Class II

HLA Class II

INNO-LiPA HLA-DRB1 Plus
INNO-LiPA HLA-DRB decoder
INNO-LiPA HLA-DQB1 Update
INNO-LiPA HLA-DQA1
INNO-LiPA HLA-DPB



Strip layout



Typing results

INNO-LiPA HLA-DRB decoder (DRB1+3+4+5)	DRB1*04, DRB1*13 / DRB3*01, DRB4*01 or DRB1*04, DRB1*14 / DRB3*01, DRB4*01
INNO-LiPA HLA-DRB1 Plus	DRB1*04, DRB1*13 or DRB1*04, DRB1*14
+ DRB1*03,11,13,14 amplification	DRB1*040101, DRB1*130101
INNO-LiPA HLA-DQB1 Update	DQB1*050201, DQB1*0602
INNO-LiPA HLA-DQA1	DQA1*010101, DQA1*0602
INNO-LiPA HLA-DPB	DPB1*1301, DPB1*1401

The INNO-LiPA Kit

INNO-LiPA HLA	Number of strips	Number of probes	Marker line
DRB1 Plus	1	37	Black
DRB decoder	2	37	Black
		25	Red
DQB1 Update	1	38	Burgundy
New DQA1	1	35	Green
DPB	1	24	Blue

The amplification kit

Amplification	Exons amplified	Size band
HLA-DRB1 Plus	DRB1	2
	DRB1*03,11,13,14	2
HLA-DRB decoder	DRB1+3+4+5	2
	DRB1	2
	86 G	2
	86 V	2
HLA-DQB1 Multiplex	2, 3	261, 250 bp
New HLA-DQA1 Multiplex	1, 2 & 3	265, 1065 bp
HLA-DPB	2	280 bp

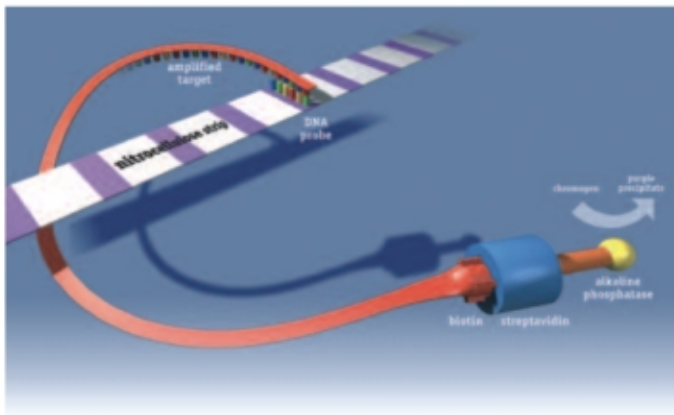
Presentation

Art. no.

	INNO-LiPA HLA-DRB1 Plus	20 tests/kit	80635
New	INNO-LiPA HLA-DRB1 Plus	100 tests/kit	80684
	INNO-LiPA HLA-DRB decoder	20 tests/kit	80340
	INNO-LiPA HLA-DQB1 Update	20 tests/kit	80336
New	INNO-LiPA HLA-DQA1	20 tests/kit	80703
	INNO-LiPA HLA-DPB	20 tests/kit	80344

The technology

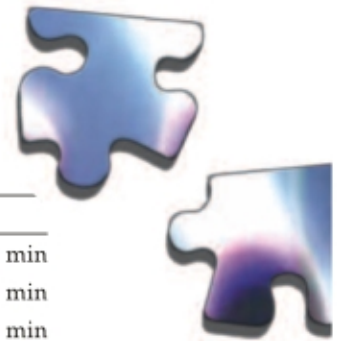
Fast, easy, and highly specific DNA hybridization test



Test principle based on reverse hybridization:

Major steps and assay time

1 Hybridization	30 min
2 Stringent wash	10 min
3 Colorimetric detection	60 min
Total (after amplification)	< 2 h



The instrument

Auto-LiPA 48

The ideal solution for your routine HLA typing

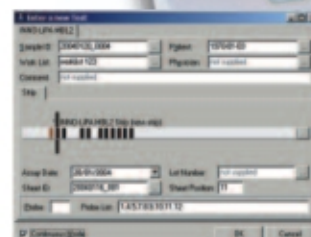
- Complete automation from hybridization to color development
- Processing of up to 48 tests per run
- Results within 2 hours
- Standardization of test manipulation: higher accuracy and reproducibility



The software

LiRAS® for LiPA HLA Easy interpretation of the strips

- Complete typing and interpretation reports
- Customized reports from a single sample or summary reports from a selection of samples
- High level of system and user management
- User-friendly and customizable interfaces
- Detailed advice for further steps provided when using INNO-LiPA HLA-DRB decoder, DRB1 Plus, and HLA-B Update Plus
- Scanned or manual entry

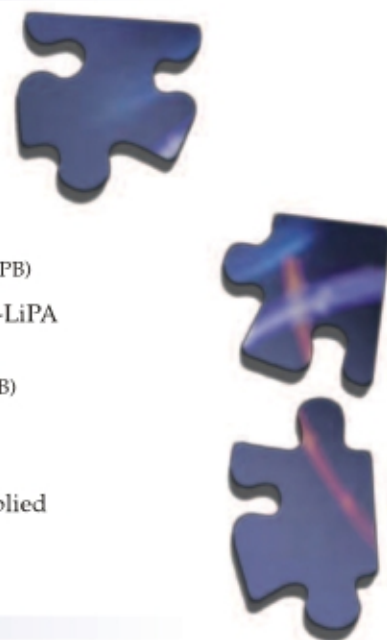


new

- LiRAS® for LiPA HLA v5.00
 - includes HLA-DQA1
 - allows use of electronic signatures
 - can be connected to a Laboratory Information Management System (LIMS).
NB: This requires the intervention of the LIMS provider.

The complete set of user-friendly kits

- All LiPA HLA kits work at the same hybridization temperature
- All LiPA buffer components are interchangeable
- All Class II kits have the same amplification profile (except INNO-LiPA HLA-DPB)
- All Class I kits have the same amplification profile. In addition, also INNO-LiPA HLA-DRB1 Plus can be run on this amplification profile.
- Supplied with LiPA-Taq and LiPA Control sample (except INNO-LiPA HLA-DPB)
- INNO-LiPA HLA-DRB decoder is supplied with 4 primer solutions for higher resolution
- INNO-LiPA HLA-DRB1 Plus and INNO-LiPA HLA-B Update Plus are supplied with 2 primer solutions for higher resolution at the allele group level



The Presentation

	Number of tests	Order code
Class I		
INNO-LiPA HLA-A Update	20	80332
	100	80688
INNO-LiPA HLA-B Update Plus	20	80634
	100	80686
INNO-LiPA HLA-C	20	80342
Class II		
INNO-LiPA HLA-DRB1 Plus	20	80635
	100	80684
INNO-LiPA HLA-DRB decoder	20	80340
INNO-LiPA HLA-DQB1 Update	20	80336
INNO-LiPA HLA-DPB	20	80344
INNO-LiPA HLA-DQA1 new	20	80703
<small>The appropriate amplification kit is provided with the INNO-LiPA kit</small>		
Instrumentation		
Auto-LiPA 48		80628
Universal Tray pack for 48 tests	25 trays	80630
Interpretation Software		
LiRAS® for LiPA HLA v 3.01		80724
LiRAS® for LiPA HLA v 5.00 new		80763
LiPA-Scan reading template	25 templates	80350



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