

THE SHAPE OF EXCELLENT  
LABORATORY PERFORMANCE

## Lipoproteins | Turbidimetric Test Systems



- High quality monospecific antibodies
- Lp(a) antibody – no cross-reaction with plasminogen and LDL (Apo B)
- High security against antigen excess
- Detailed working procedures for automated instruments

*Let's connect.*

To maximize quality

# Dako's Lipoprotein Test Systems for Turbidimetry and Nephelometry

## Lipoprotein(a), apolipoprotein A-I and B

Lp(a) is a spherical lipoprotein complex with a glycoprotein content of about 35%. The protein moiety of Lp(a) consists of apolipoprotein(a) (Apo(a)), and apolipoprotein B (Apo B). Apo(a) shows a high homology with plasminogen. Apo B is an integral part of the LDL particles which transport cholesterol to the arterial walls. In contrast, Apo A-I is a part of the HDL particles which remove cholesterol from the walls.

## Working procedures

Dako's Lipoprotein Test System comprises detailed working procedures for automated instruments and the following reagents which are available separately:

Antibodies	Code
Rabbit Anti-Human Apolipoprotein A-I	Q 0496
Rabbit Anti-Human Apolipoprotein B	Q 0497
Rabbit Anti-Human Lipoprotein(a)	Q 0023

Calibrators and controls (lyophilized)	Code
Human Serum Lipoprotein(a) Calibrator	X 0958
Human Serum Lipoprotein(a) Low Control	X 0961
Human Serum Lipoprotein(a) High Control	X 0962

Buffers	Code
Dilution Buffer 1	S 2005
Reaction Buffer 1 (Apo A-I and B) Cobas	S 2007
Reaction Buffer 3 (Apo A-I and B) Hitachi and BNA S 2006	
Reaction Buffer 4 (Lp(a))	S 2011

## Measuring range

Apolipoprotein A-I:	Approx. 0.2 - 4.0 g/L
Apolipoprotein B:	Approx. 0.12 - 2.6 g/L
Lipoprotein(a):	Approx. 80 - 1800 mg/L

## Security range

Apolipoprotein A-I:	Up to 30 g/L
Apolipoprotein B:	Up to 32 g/L
Lipoprotein(a):	Up to 3572 mg/L

## Samples

Serum or plasma. For Lp(a) measurements we recommend fresh serum and plasma from fasting patients.

## Precision

The Dako Test Systems has a low degree of imprecision, and the CV is consistently less than 5.5%, as shown below.

### Apolipoprotein A-I

Sera	Mean value (g/L)	Standard deviation g/L			CV %	Number of measurements
		Within run	Between run	Total		
Low	0.69	0.02	0.02	0.03	4.0	36
Medium	1.41	0.02	0.02	0.03	2.3	32
High	2.18	0.03	0.03	0.04	2.0	36

### Apolipoprotein B

Sera	Mean value (g/L)	Standard deviation g/L			CV %	Number of measurements
		Within run	Between run	Total		
Low	0.45	0.007	0.012	0.014	3.1	30
Medium	0.94	0.010	0.008	0.013	1.4	30
High	1.33	0.014	0.014	0.020	1.5	30

### Lipoprotein(a)

Sera	Mean value (mg/L)	Standard deviation mg/L			CV %	Number of measurements
		Within run	Between run	Total		
Low	189.7	2.54	4.89	5.512	2.9	32
Medium	610.9	3.76	9.68	10.39	1.7	36
High	1212.6	8.61	41.29	42.18	3.5	34

## EU regulatory status:

CE – IVD (Complies with Directive 98/79/EC of the European Parliament and of the Council on *in vitro* diagnostic medical devices).



Corporate Headquarter  
Denmark  
+45 44 85 95 00

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