

## LIPID CONTROL - LEVEL I (LPD CONTROL I)

**Cat. No.** LE2668                      **Lot No.** 2986CH  
**Size:** 5 x 1 ml                      **Expiry:** 2024-09-28  
**GTIN:** 05055273204186

### INTENDED USE

This product is intended for *in vitro* use, in the quality control of Direct HDL, Direct LDL, Lipoprotein (a), Apolipoprotein A-I, Apolipoprotein B, Cholesterol and Triglyceride methods on clinical chemistry systems.

### SAFETY PRECAUTIONS AND WARNINGS

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV1 & HIV2) antibody, Hepatitis B surface antigen (HbsAg) and the Hepatitis C virus (HCV) antibody and found to be NON-REACTIVE. FDA approved methods have been used to conduct these tests. However, since no method can offer complete assurance as to the absence of infectious agents, this material and all patient samples should be handled as though capable of transmitting disease. For *in vitro* diagnostic use only.

### STORAGE AND STABILITY

Unopened Lipid Control is stable until the expiry date printed on the product label when stored between +2°C and +8°C. Once reconstituted, the components of the serum are stable for 7 days at +2°C to +8°C, and 4 weeks at -20°C when frozen once. The following exceptions apply: LP(a) is stable for 16 weeks at -20°C when frozen once. Values may drop by up to 10% for Direct LDL Cholesterol when stored for 4 weeks at -20°C.

### PREPARATION FOR USE

Open the vial carefully, avoiding any loss of the material and reconstitute with 1 ml of distilled water. Replace the rubber stopper, close the vial and leave to stand for 30 minutes before use. Ensure that all traces of dry material are dissolved by swirling gently.

### MATERIALS PROVIDED

Lipid Control - Level I 5 x 1 ml

### MATERIALS REQUIRED BUT NOT PROVIDED

Distilled water  
Volumetric pipette

### VALUE ASSIGNMENT

Due to the variation caused by test equipment, test reagents and laboratory technique, the quoted ranges are provided for guidance. It is recommended that these ranges are used until each laboratory has established its own ranges, based on individual laboratory requirements.

Each batch of Lipid Control is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories and internal testing conducted at Randox Laboratories Ltd.

If a method is unavailable, contact Randox Laboratories - Technical Services, Northern Ireland, tel: +44 (0) 28 9445 1070 or email [Technical.Services@randox.com](mailto:Technical.Services@randox.com).

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| EC | REP |
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## LIPID CONTROL - LEVEL 1 (LPD CONTROL 1)

Lot. No. 2986CH Cat. No. LE2668

Size 5 x 1ml Expiry 2024-09-28

Range

| Analyte            | unit   | Target | low  | high        | methods                             |
|--------------------|--------|--------|------|-------------|-------------------------------------|
| Apolipoprotein A-1 | g/l    | 1.01   | 0.83 | 1.19        | Immunoturbidimetric                 |
|                    | mg/dl  | 101    | 82.8 | 119         |                                     |
|                    | g/l    | 1.00   | 0.82 | 1.17        | Nephelometric                       |
|                    | mg/dl  | 100    | 81.6 | 118         |                                     |
| Apolipoprotein B   | g/l    | 0.79   | 0.64 | 0.93        | Immunoturbidimetric                 |
|                    | mg/dl  | 78.5   | 64.4 | 92.6        |                                     |
|                    | g/l    | 0.79   | 0.65 | 0.93        | Nephelometric                       |
|                    | mg/dl  | 78.9   | 64.7 | 93.1        |                                     |
| Cholesterol        | mmol/l | 3.72   | 3.24 | 4.20        | Cholesterol Oxidase - Abell Kendall |
|                    | mg/dl  | 144    | 125  | 163         |                                     |
|                    | mmol/l | 3.71   | 3.23 | 4.19        | Siemens Dimension                   |
|                    | mg/dl  | 143    | 125  | 161         |                                     |
|                    | mmol/l | 3.71   | 3.23 | 4.19        | Cholesterol Oxidase - IDMS          |
|                    | mg/dl  | 143    | 125  | 161         |                                     |
| HDL - Cholesterol  | mmol/l | 0.82   | 0.69 | 0.94        | Direct Clearance Method             |
|                    | mg/dl  | 31.5   | 26.7 | 36.3        |                                     |
|                    | mmol/l | 0.24   | 0.17 | 0.32        | Phosphotungstic acid pptn.          |
|                    | mg/dl  | 9.42   | 6.59 | 12.2        |                                     |
|                    | mmol/l | 0.82   | 0.70 | 0.94        | Direct HDL Immunoseparation         |
|                    | mg/dl  | 31.7   | 26.9 | 36.5        |                                     |
|                    | mmol/l | 0.92   | 0.78 | 1.05        | Direct HDL PEGME                    |
|                    | mg/dl  | 35.4   | 30.1 | 40.7        |                                     |
|                    | mmol/l | 0.95   | 0.81 | 1.10        | Direct HDL PPD                      |
|                    | mg/dl  | 36.8   | 31.3 | 42.3        |                                     |
|                    | mmol/l | 0.82   | 0.70 | 0.95        | Direct HDL Roche 4th Generation     |
|                    | mg/dl  | 31.8   | 27.0 | 36.6        |                                     |
| mmol/l             | 0.96   | 0.81   | 1.10 | HDL - Ultra |                                     |
| mg/dl              | 36.9   | 31.3   | 42.5 |             |                                     |
| LDL - Cholesterol  | mmol/l | 2.19   | 1.86 | 2.52        | Direct Clearance Method             |
|                    | mg/dl  | 84.5   | 71.8 | 97.2        |                                     |
|                    | mmol/l | 2.24   | 1.90 | 2.58        | Calculated                          |
|                    | mg/dl  | 86.5   | 73.3 | 100         |                                     |
|                    | mmol/l | 2.04   | 1.73 | 2.35        | Selective detergent methods         |
|                    | mg/dl  | 78.7   | 66.8 | 90.6        |                                     |
| Lipoprotein (a)    | mg/dl  | 14.7   | 11.8 | 17.6        | Immunoturbidimetric                 |
|                    | nmol/l | 25.5   | 20.4 | 30.6        |                                     |
| Triglycerides      | mmol/l | 1.28   | 1.08 | 1.48        | Lipase/GPO-PAP no correction        |
|                    | mg/dl  | 113    | 95.6 | 130         |                                     |
|                    | mmol/l | 1.38   | 1.16 | 1.60        | Lipase/Glycerol Dehydrogenase       |
|                    | mg/dl  | 122    | 103  | 141         |                                     |

## LIPID CONTROL - LEVEL 1 (LPD CONTROL 1)

Lot. No. 2986CH Cat. No. LE2668

Size 5 x 1ml Expiry 2024-09-28

Range

| Analyte       | unit   | Target | low  | high | methods                    |
|---------------|--------|--------|------|------|----------------------------|
| Triglycerides | mmol/l | 1.33   | 1.12 | 1.54 | Lipase/GK UV no correction |
|               | mg/dl  | 118    | 99.0 | 137  |                            |