SAFETY DATA SHEET

1. Information of the substance/mixture and of the company/undertaking	
1.1 Commercial product name	Apolipoprotein B, Immunoturbidimetric Immunoassay
Cat. No.:	LP2990
1.2 Company:	RANDOX Laboratories Ltd., 55 Diamond Road, Crumlin, Co. Antrim, United Kingdom, BT29 4QY Tel: +44 (0) 28 9442 2413; Fax: +44 (0) 28 9445 2912 Email: **msds@randox.com** Website: **www.randox.com**
1.3 In Emergencies:	Tel: +44 (0) 28 9442 2413

2. Hazards identification	
	Buffer and Antibody Reagent Contains no hazardous substances in reportable quantities Calibrator Contains Lyophilised Human Serum
Classification:	Biohazard

3. Composition / Information on Ingredients	
Warnings:	For *in vitro* diagnostic use only. Do not pipette by mouth. Handle laboratory reagents in accordance with Good Laboratory Practice. May cause irritation to skin and eyes, may be irritating to mucous membranes and upper respiratory tract. Avoid contact with skin, inhalation and ingestion. Buffer and Antibody Reagent The Buffer and Antibody Reagent contain sodium azide (<0.1%w/v). Sodium azide reacts with lead or copper plumbing to form potentially explosive azides. When disposing of such reagents flush with large volumes of water to prevent azide build up. Exposed metal surfaces should be cleaned with 10% sodium hydroxide. As the Sodium azide is in an acidic solution harmful fumes may be given off. Inhalation of fumes must be avoided. Calibrator The serum in this kit is of human origin. This serum has been tested for the HIV (Human Immunodeficiency Virus) Antibody, HBsAg, and HCV and found to be non-reactive. However as 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 infectious disease and disposed of accordingly.
Risk phrases:	None
Safety phrases:	None

4. First aid measures	
Emergency First Aid:	Call an internal First Aider where available or else contact a physician immediately. Direction for First Aider or Physician:
Inhalation:	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Ingestion:	If swallowed wash out mouth with water provided person is conscious, call a physician.
Skin Contact:	In case of skin contact immediately wash skin with soap and copious quantities of water.
Eye Contact:	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician.

5. Fire-fighting measures	
Flash point:	Not determined
Flammable limits:	Not determined
Extinguishing media:	No restriction
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire and Explosion Hazards:	May emit toxic fumes under fire conditions
Thermal decomposition:	Not determined

6. Accidental release measures	
After spillage:	**Buffer and Antibody Reagent** Use appropriate spill absorbent kit as instructed by the manufacturer. Alternatively, mop up with an absorbent material and hold for waste disposal. Appropriate Personal Protective Equipment should be worn, e.g. laboratory coat, gloves, safety glasses and mask. Ventilate area and wash spill site after material pick up is complete. **Calibrator** Treat material as you would human body fluids. Disposal should therefore include autoclaving at 121^{o}C for 20 min. prior to appropriate disposal with regard to local regulations. Alternatively, decontamination using a 0.1% solution of sodium hypochlorite is acceptable. Perform this type of decontamination in a fume hood.
Absorbent material:	No restriction

7. Handling and storage	
7.1 Handling:	Wash thoroughly after handling. Do not use if skin is cut or scratched. Avoid contact with eyes, skin and clothing.
7.2 Storage	Store at temperatures and conditions as indicated on the product label
Do not store together:	N/A

8. Exposure controls/personal protection	
MEL/OES	Not determined
Respiratory protection:	None
Eye protection:	Protective glasses
Hand protection:	Standard laboratory rubber or latex gloves.
Skin protection:	A laboratory coat or apron is recommended

9. Physical and chemical properties	
Physical state:	Liquid (R1 Assay Buffer & R2 Antibody Reagent) Lyophilised (Calibrator)
Colour:	Colourless (R1 Assay Buffer) Pale yellow (R2 Antibody Reagent) Off white (Calibrator)
Odour:	Odourless
pH value:	Not determined
Boiling point	Not determined
Melting point:	Not determined
Oxidising properties:	Not determined
Ignition temperature	Not determined
Explosion limits:	Not explosive
Density:	Not determined
Solubility in water:	Soluble

10. Stability and reactivity	
Stability:	Stable
Conditions to avoid:	Not determined
Substances to avoid:	Strong oxidising agents, also acids.
Hazardous decomposition products:	Not determined

11. Toxicological information:	
LD50 oral	Not determined
LD50 intraperitoneal	Not determined
LD50 skin	Not determined
LC50 inhalation	Not determined
Toxicologic information:	Not thoroughly investigated

12. Ecological information	
Water hazard class:	Data not yet available

13. Disposal considerations	
	Buffer and Antibody Reagent Each disposal facility must determine proper disposal methods of the substance or preparation and any contaminated packaging to comply with Local and National Environmental Regulations **Calibrator** Treat material as you would human body fluids. Disposal should therefore include autoclaving at 121^{o}C for 20 min. prior to appropriate disposal with regard to local regulations. Alternatively, decontamination using a 0.1% solution of sodium hypochlorite is acceptable. Perform this type of decontamination in a fume hood. Refer to Section 6.

14. Transport Information			
GGVE/GGVS:	Data not yet available	RID/ADR	Data not yet available
ICAO/IATA-DGR:	Data not yet available	UN-Nr.:	Data not yet available
IMDG-CODE:	Data not yet available	MFAG	Data not yet available
		EMS:	Data not yet available

15. Regulatory information	
	This product contains no hazardous chemicals in reportable quantities according to CHIP 3.
Hazard symbol:	Biohazard
Risk phrases: Safety phrases:	None None
Precautions:	See Section 3 Calibrator:- Biohazard Contains human material. Handle with due care.

16. Other information	
	The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for observing any National laws and guidelines applicable.