SAFETY DATA SHEET

1 PRODUCT IDENTIFICATION

Product Name:

APhL ELISA® IgG and IgM HRP Kit for detection of IgG and IgM aPL antibodies
APhL ELISA® IgG HRP Kit for detection of IgG aPL antibodies
APhL ELISA® IgM HRP Kit for detection of IgM aPL antibodies

Product Number:

LAPL-K-HRP-00GM
LAPL-K-HRP-001G
LAPL-K-HRP-001M

Components:

APhL ELISA® Phospholipid Antigen-coated polystyrene microwell strips, APhL ELISA® HRP IgG/IgM Conjugate (contains methylisothiazolone and bromonitrodioxane), APhL ELISA® HRP IgG/IgM Calibrators (contain methylisothiazolone and bromonitrodioxane), APhL ELISA® TMB Substrate (contains methanol, dimethylsulfoxide, acetone, 3-3'-5-5' tetramethylbenzidine, and hydrogen peroxide), APhL ELISA® HRP Stopping Solution (contains sulfuric acid and hydrochloric acid), APhL ELISA® Sample Diluent (contains sodium azide), APhL ELISA® HRP Negative/IgG Positive/IgM Positive Controls (contain sodium azide), APhL ELISA® HRP PBS Concentrate.

Recommended Application

Identified uses: The APhL ELISA® HRP Kit is a semi-quantitative enzyme linked immunosorbent assay (ELISA) for use as an aid in diagnosing the Antiphospholipid Syndrome (APS).

Manufacturer/Supplier:

Louisville APL Diagnostic, INC
702 9th St N., Suite A
Texas City, TX 77590-7451 - USA
www.louisvilleapl.com
support@louisvilleapl.com
Telephone:+1 770-455-7129
USA/Canada: 1-800-624-3192
Fax:+1 844-721-8193

***Emergency Information*:** In case of an emergency call **+1 770-455-7129.**

2 HAZARDS IDENTIFICATION

Emergency Overview:

Product is not classified as hazardous based on the physical and/or chemical nature and/or concentration of ingredients.

Product has little to no hazards for Emergency responders if spilled and has no unusual hazard if in a fire.

Sodium azide (<0.1%) is included as a preservative. Although it is not considered hazardous at this level, note that accumulated sodium azide may react with lead or copper plumbing to form highly explosive metal azides. Thorough flushing of plumbing is recommended.

OSHA Hazards:

Not Hazardous

While the materials in this diagnostic kit are not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Sodium Azide (in APhL ELISA® Sample Diluent and APhL ELISA® HRP Negative/IgG Positive/IgM Positive Controls)

Classification: This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200.

GHS Label Elements:

Signal word: Warning **Pictogram:**

Hazard class:

Hazardous to the aquatic environment, Chronic **Category 3**

Hazard Statements:

H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P273 Avoid release to the environment
P501 Dispose of contents/ container to comply with local, state, and federal regulations

Hazards not otherwise classified (HNOC) or not covered by GHS:

Very toxic to aquatic life with long lasting effects
Contact with acids liberates very toxic gas
May react with lead and copper plumbing to form highly explosive metal azides
Rapidly absorbed through skin

Methanol, Dimethylsulfoxide, Acetone, 3-3'-5-5'-Tetramethylbenzidine, and Hydrogen Peroxide (in APhL ELISA® TMB Substrate)

Classification: This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements:

Signal word: Danger **Pictograms:**

Hazard class:

Flammable Liquids	**Category 3**
Acute toxicity, oral	**Category 4**
Acute toxicity, dermal	**Category 4**
Acute toxicity, inhalation	**Category 4**
Specific organ toxicity, single exposure	**Category 1**

Hazard Statements:

H226	Flammable liquid and vapor
H302 + H312 + H332:	Harmful if swallowed, or if in contact with skin, or if inhaled
H370	Causes damage to organs

Precautionary statements:

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P260	Do not breathe dust/fumes/gas/mist/vapours/spray
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P370+P378	In case of fire: Use water spray, carbon dioxide, chemical foam, or dry chemicals to extinguish
P403+P235	Store in a well-ventilated place. Keep cool
P405	Store locked up
P501	Dispose of contents/ container to comply with local, state, and federal regulations

Sulfuric Acid and Hydrochloric Acid (in APhL ELISA® HRP Stopping Solution)

Classification: This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements:

Signal word: Warning **Pictograms:**

Hazard Class:

Corrosive to metals	**Category 1**
Skin corrosion/irritation	**Category 2**
Serious eye damage/irritation	**Category 2A**

Hazard Statements:

H290	May be corrosive to metals
H315	Causes skin irritation
H319	Causes serious eye irritation

Precautionary Statements:

P234	Keep only in original container.
P264	Wash skin thoroughly after handling
P280 clothing/ eye protection/ face protection	Wear protective gloves/ protective
P362	Take off contaminated clothing
P390 damage	Absorb spillage to prevent material
P404	Store in a closed container.
P305+P351+P338 water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.	IF IN EYES: Rinse cautiously with
P332+P313 advice/attention.	IF SKIN irritation occurs: Get medical
P337+P313 advice/attention.	IF eye irritation persists: Get medical

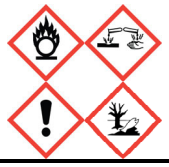
3 INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures
Description: Product contains mixtures of the substances listed below with nonhazardous additions.

APhL ELISA® Sample Diluent** and **APhL ELISA® HRP Negative/IgG Positive/IgM Positive Controls

Hazardous	*CAS#*	*EINECS#*	*GHS Symbols*	*GHS Classification*	*%*
Sodium Azide	26628-22-8	247-852-1		Acute Toxicity, Oral (Category 2), H300 Acute Toxicity, Dermal (Category 1), H310 Hazardous to the Aquatic Environment, Acute (Category 1), H400 Hazardous to the Aquatic Environment, Chronic (Category 1), H410	≤ 0.2%

APhL ELISA® TMB Substrate

Hazardous	*CAS#*	*EINECS#*	*GHS Symbols*	*GHS Classification*	*%*
Methanol	67-56-1	200-659-6		Flammable liquids (Category 2), H225 Acute Toxicity, Oral (Category 3), H301 Specific target organ toxicity, Single Exposure (Category 1), H370	≤ 30
Dimethylsulfoxide	67-68-5	200-664-3		Skin corrosion/irritation (Category 2), H315 Flammable liquids (Category 3), H226	≤ 10
Acetone	67-64-1	200-662-2		Flammable liquids (Category 2), H225 Serious eye damage/eye irritation (Category 2A) H319	≤ 10
3,3',5,5'-Tetramethylbenzidine	64285-73-0	264-769-6		Skin corrosion/irritation (Category 2), H315 Serious eye damage/eye irritation (Category 2A), H319 Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335	≤ 0.1%
Hydrogen Peroxide	7722-84-1	231-765-0		Oxidizing liquids; Oxidizing solids (Category 1), H271 Skin corrosion/irritation (Category 1A, B, C), H314 Acute toxicity, oral (Category 4), H302 Acute toxicity, inhalation (Category 5), H333 Hazardous to the aquatic environment, acute hazard (Category 3), H402	≤ 0.1%

APhL ELISA® HRP Stopping Solution

Hazardous	*CAS#*	*EINECS#*	*GHS Symbols*	*GHS Classification*	*%*
Sulfuric acid	7664-93-9	231-639-5		Corrosive to metals (Category 1), H290 Skin corrosion/irritation (Category 2), H315 Serious eye damage/irritation (Category 2A), H319	≤ 2
Hydrochloric acid	7647-01-0	231-639-5		Corrosive to metals (Category 1), H290 Skin corrosion/irritation (Category 2), H315 Serious eye damage/irritation (Category 2A), H319	≤ 2

APhL ELISA® HRP IgG/IgM Conjugate and *APhL ELISA® HRP IgG/IgM Calibrators* contain Methylisothiazolone (CAS# 2682-20-4 EINECS# 220-239-6) and <0.2% Bromonitrodioxane (CAS# 30007-47-7 EINECS# 250-001-7). Based on percentages of hazardous ingredients in these products, they are not classified as "dangerous" under EU Directives (67/548/EEC and 1999/45/EC) or "hazardous" under US OSHA Hazard Communication regulations (29 CFR 1910.1200).

4 FIRST AID MEASURES

Description of first aid measures
General advice: Consult a physician. Provide SDS document to physician. Move out of dangerous area.
If inhaled: Move exposed individual to fresh air. Loosen clothing as necessary and place individual in a comfortable position. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lens(es) if able to do so during rinsing. Seek immediate medical attention. Rinse under the eyelids during flushing and continue to rinse eyes during transport to hospital.
If swallowed: Do NOT induce vomiting. Rinse mouth thoroughly with water. Have exposed individual drink sips of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Most important symptom and effects, both acute and delayed: The most important known symptoms and effects are described in the labeling (see Section 2)
Recommendations for immediate medical attention and special treatment needed: No data available.

5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture: Thermal decomposition of sodium azide can lead to release of irritating gasses and vapors. Runoff to sewer may create fire or explosion hazard. Do not allow run-off from fire fighting to enter drains or water courses.
Advice for firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary.
Further information: No data available.

6 ACCIDENTAL RELEASE MESURES

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. **For personal protection see Section 8.**
Environmental precautions: Do not let products enter drains or otherwise release product into the environment. Keep *APhL ELISA® TMB Substrate* away from heat, flame, ignition sources, and reactive materials.
Methods and materials for containment and cleaning up: Contain and soak up spills with an inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to other sections: For disposal recommendations see Section 13. For personal protection see Section 8.

7 HANDLING AND STORAGE

Precautions for safe handling: Avoid skin and eye contact and breathing in vapor, mists and aerosols. Wear personal protective equipment. Wash hands thoroughly after handling. For precautions refer to Section 2. *APhL ELISA® HRP Stopping Solution* is an irritant.
Conditions for safe storage, including any incompatibilities: It is recommended that all components of the *APhL ELISA® HRP Kit* be stored 2-8ºC until the expiration date, both before and after containers are opened. Do not freeze any of the components. Store away from incompatible materials as described in Section 10. Keep containers tightly closed in a dry and well-ventilated place. Keep containers upright to prevent leakage.
Specific end use(s): Refer to Section 1; no other specific uses are stipulated.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines:

	CAS#	*ACGIH TLV*	*OSHA PEL*	*NIOSH IDLH*	*Mexico OEL (TWA)*
Sodium Azide	26628-22-8	Ceiling: 0.1ppm (0.29 mg/m^3)	Ceiling: 0.1 ppm (0.3 mg/m^3) Skin, Vacated	Ceiling: 0.1 ppm (0.3 mg/m^3)	N/A
Methanol	67-56-1	TWA 200ppm (262 mg/m^3) STEL 250 ppm (328 mg/m^3)	TWA 200ppm (262 mg/m^3)	**REL**: TWA 200ppm (262 mg/m^3) Skin ST 250 ppm (325mg/m^3)	N/A
Dimethylsulfoxide	67-68-5	Not present near limit levels	Not present near limit levels	Not present near limit levels	N/A
Acetone	67-64-1	TWA 500 ppm (1,188 mg/m^3) STEL 750 ppm (1,782 mg/m^3)	TWA 1,000 ppm (2,400 mg/m^3)	TWA 250 ppm (590 mg/m^3)	N/A
3-3'-5-5'- Tetramethylbenzidine	64285-73-0	Not present near limit levels	Not present near limit levels	Not present near limit levels	N/A
Hydrogen Peroxide	7722-84-1	TWA: 1ppm	TWA: 1ppm (1.4mg/m^3)	TWA: 1ppm (1.4mg/m^3)	N/A
Sulfuric Acid	7664-93-9	TWA: 0.2mg/m^3	TWA: 1mg/m^3	IDLH: 15mg/m^3 TWA: 1mg/m^3	TWA: 1mg/m^3
Hydrochloric acid	7647-01-0	Ceiling: 2 ppm	Ceiling: 5 ppm/7 mg/m^3	Ceiling: 5 ppm/7 mg/m^3 ILDH: 50ppm	Ceiling: 5ppm/7mg/m^3

Legend
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering controls: Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Practice general industrial hygiene. Use only under a chemical fume hood. Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Personal protective equipment
Eye/face protection**:** Use eye protection tested and approved under appropriate government standards such as OSHA's eye and face protection regulations in 29 CFR 1910.133 (US) or European Standard EN166 (EU).
Skin protection and body protection**:** Handle with nitrile rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear long sleeved clothing to prevent skin exposure.
Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9 PHYSICAL AND CHEMICAL PROPERTIES

Properties Summary:

Component	*Appearance*	*Color*	*Odor*	*pH*
APhL ELISA® Sample Diluent	Liquid	Pale Yellow	Characteristic	No data available
APhL ELISA® HRP Negative Control	Liquid	Pale Yellow	Characteristic	No data available
APhL ELISA® HRP IgG Positive Control	Liquid	Pale Yellow	Characteristic	No data available
APhL ELISA® HRP IgM Positive Control	Liquid	Pale Yellow	Characteristic	No data available
APhL ELISA® TMB Substrate	Liquid	Pale Yellow	Mild alcohol odor	No data available
APhL ELISA® HRP Stopping Solution	Liquid	Colorless	Mild acid odor	14

For all *APhL ELISA® IgG and IgM HRP Kit* Components:

Melting Point/Freezing Point	Not Determined	Flammability (Solids, Gasses)	N/A
Flammable/Explosive Limits	Not Determined	Partition coefficient: n-octanol/water	Not Determined
Odor Threshold	Not Determined	Auto-Ignition Temperature	Not Determined
Vapor Pressure	Not Determined	Decomposition temperature	Not Determined
Vapor Density	Not Determined	Viscosity	Not Determined
Relative Density	Not Determined	Explosive properties	Not Determined
Initial Boiling Point/Range	Not Determined	Oxidizing properties	Not Determined
Flash Point	Not Determined	Solubility	All products soluble in water
Evaporation Rate	Not Determined		

Other safety information: No data available.

10 STABILITY AND REACTIVITY

Reactivity: This product is stable under recommended storage conditions.
Chemical stability: This product is stable under recommended storage conditions.
Possibility of hazardous reactions*:* Hazardous reactions are not anticipated to occur under normal conditions of storage and use.
Conditions to avoid: Do not freeze any of the components in the *APhL ELISA® HRP Kits*. Avoid excessive heat, fire, static electricity, and direct sunlight.
See Section 5 in the event of a fire.

Component	*Incompatible Materials*	*Hazardous Decomposition Products*
APhL ELISA® Sample Diluent	Strong acids, strong oxidizers, copper, and lead	May react with plumbing systems to form highly explosive compounds (lead or copper azide in laboratory plumbing which may explode on percussion)
APhL ELISA® HRP Negative/IgG Positive/IgM Positive Controls	Strong acids, strong oxidizers, copper, and lead	May react with plumbing systems to form highly explosive compounds (lead or copper azide in laboratory plumbing which may explode on percussion)

Component	Incompatible Materials	Hazardous Decomposition Products
APhL ELISA® TMB Substrate	Strong oxidizing agents such as sulfuric acid, nitrates, and perchlorates.	May release carbon dioxide, carbon monoxide, nitrogen oxides, and formaldehyde under fire conditions
APhL ELISA® HRP Stopping Solution	Oxidizers, bases, and metals	May release carbon dioxide, carbon monoxide, hydrogen chloride gas, and sulfur oxides
APhL ELISA® HRP PBS Concentrate	No information available	Oxides of phosphorus, hydrogen chloride gas, potassium oxides, and sodium oxides formed under fire conditions

11 TOXICOLOGICAL INFORMATION

Acute: This product is not known to have any specific health or toxicological effects if used as offered for its intended purpose.
Chronic: None known if used as offered for its intended purpose.
Carcinogenicity:

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by the National Toxicology Program (NTP), Report on Carcinogens,14th Report.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by the International Agency for Research on Cancer (IARC), Monographs, Volumes 1-122.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by the Occupational Safety and Health Administration (OSHA).

Comments: Refer to Section 3 for individual chemical toxicological information. Additional information is as follows:

Sodium azide	LD50 Oral	27mg/kg	(rat)
	LD50 Skin	20mg/kg	(rabbit)
Methanol	LDL0 Oral	143mg/kg	(human, diarrhea)
	LD50 Oral	1,187-2,769 mg/kg	(rat)
	LC50 Inhalation	128.2mg/L	(rat, 4h)
	LC50 Inhalation:	87.6mg/L	(rat, 6h)
Dimethylsulfoxide	LD50 Oral: 1	4,500 mg/kg	(rat)
	LC50 Inhalation:	40250 ppm	(rat, 4h)
	LD50 Dermal:	>5,000 mg/kg	(rabbit)

12 ECOLOGICAL INFORMATION

Ecotoxicity: Sodium azide is expected to be very toxic to aquatic life. The LC50/96-hour values for fish are less than 1 mg/L.
Persistence and degradability: Sodium azide is not expected to biodegrade.
Bioaccumulation/Accumulation: No information available.
Absorption/Leaching: Sodium azide is expected to leach into the groundwater and may become moderately degraded by photolysis when released into the air. *APhL ELISA® TMB Substrate* is miscible in water and may spread to water systems. This component is non-volatile.
Other adverse effects: No data available.

13 DISPOSAL CONSIDERATIONS

Some reagents in this kit contain sodium azide as a preservative. Sodium azide has been reported to form lead or copper azide in laboratory plumbing which may explode on percussion. Chemical waste generators must consult local, regional, and national hazardous waste regulations to ensure complete compliance and accurate classification and disposal of hazardous wastes, product, or packaging. Use or contamination of the kit components may change waste management requirements.

14. TRANSPORT INFORMATION

Special requirements: None.
This product must be shipped in accordance with all applicable local, state, and federal regulations. As offered for shipping (based on a single kit only):
DOT, IATA, IMDG, and ADR Information:
APhL ELISA® TMB Substrate

UN Number:	1230
UN Proper Shipping Name:	METHANOL
Transport Hazard Class	3
Packing Group:	II

Environmental Hazard:	Not a maritime pollutant
Transport in Bulk:	N/A
Special Precautions:	None required

APhL ELISA® HRP Stopping Solution

UN Number:	3264
UN Proper Shipping Name:	Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric Acid)
Transport Hazard Class	8
Packing Group:	III
EMS Number:	F-A, S-B
Environmental Hazard:	Not a maritime pollutant
Transport in Bulk:	N/A
Special Precautions:	None required

UN Number:	1789
UN Proper Shipping Name:	HYDROCHLORIC ACID
Transport Hazard Class	8
Packing Group:	III
Environmental Hazard:	Not a maritime pollutant
Transport in Bulk:	N/A
Special Precautions:	None required

APhL ELISA® Sample Diluent and APhL ELISA® HRP Negative/IgG Positive/IgM Positive Controls

Not a dangerous good.

15. REGULATORY INFORMATION

US Federal and State Regulations

Toxic Substances Control Act (TSCA):	Sodium azide, Methanol, Acetone, 3-3'-5-5'-Tetramethylbenzidine are listed on TSCA inventory
SARA 311/312 Hazards:	Components do not reach threshold values
SARA 313 Components:	Components do not reach threshold values
SARA 302 Components:	Components do not reach threshold values
CERCLA Reportable Quantity:	Components do not reach threshold values
Clean Water Act:	Components do not reach threshold values
Clean Air Act:	Components do not reach threshold values
OSHA Hazards:	No known OSHA hazards
Extremely Hazardous Substances:	No components in the *APhL ELISA® IgG and IgM HRP Kit* are listed
California Proposition 65:	No components are listed.

Right To Know Components:

State	*Right To Know Components*
California	Methanol CAS# 67-56-1; Acetone CAS# 67-64-1
Massachusetts	Methanol CAS# 67-56-1; Acetone CAS# 67-64-1; Acetone CAS# 67-64-1; Sodium azide CAS# 26628-22-8
Minnesota	Methanol CAS# 67-56-1 Sodium azide (≥0.1%) is listed on Minnesota Pollution Control Agency: List of Acute Hazardous Waste
New Jersey	Methanol CAS# 67-56-1; 3-3'-5-5'-Tetramethylbenzidine CAS# 64285-73-0; Acetone CAS# 67-64-1; Sodium azide CAS# 26628-22-8
Pennsylvania	Methanol CAS# 67-56-1; 3-3'-5-5'-Tetramethylbenzidine CAS# 64285-73-0; Acetone CAS# 67-64-1; Sodium azide CAS# 26628-22-8
Rhode Island	Sodium azide CAS# 26628-22-8

Canadian DSL/NDSK Status:	Sodium azide is listed on DSL
EU Classification (90/492/EEC):	Not Applicable
EU Hazard and Precautionary Statements:	See Section 2

16. OTHER INFORMATION

NFPA and Directive 1999/45/EC Ratings and Statements

Component	*NFPA Rating*	*1999/45/EC Classification*	*Directive 1999/45/EC Caution Statements*
APhL ELISA® Sample Diluent ***APhL ELISA® HRP Negative Control*** ***APhL ELISA® HRP IgG Positive Control*** ***APhL ELISA® HRP IgM Positive Control***		 Xn (Harmful)	R20 Harmful if inhaled. R21 Avoid contact with skin. R22 Harmful if swallowed. R32 Contact with acids liberates very toxic gas. S2 Keep out of the reach of children. S13 Wear suitable protective clothing. S37 Use gloves. S46 If swallowed, seek medical advice immediately and show this container or label.
APhL ELISA® TMB Substrate		Not available	Not available
APhL ELISA® HRP Stopping Solution		 Xi (Irritant)	R36: Irritating to eyes. R38: Irritating to skin.

Full Text of Hazard Codes Listed in Sections 2 and 3

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H271	May cause fire or explosion, strong oxidizer
H290	May be corrosive to metals
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H335	May cause respiratory irritation
H370	Causes damage to organs
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long-lasting effects
H412	Harmful to aquatic life with long-lasting effects
H302 + H312 + H332	Harmful if swallowed, or if in contact with skin, or if inhaled

Serum supplied in this kit has been tested by FDA required assays and have been found negative for hepatitis B surface antigen (HBsAg) and antibodies to immunodeficiency virus HIV-1 and HIV-2 and hepatitis C virus. WARNING: Because no test method can offer complete assurance that HIV, HCB, HBsAg or other infectious agents are absent, these results cannot guarantee the absence of infective agents. Proper handling and disposal methods should be established as for all potentially infective material and only personnel adequately trained in such methods should be permitted to perform the procedures.

Louisville APL Diagnostic, INC provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the kit by properly trained personnel using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.