Teacher's Manual

Erycard[™] Blood Type Test Kit

IS3185

IS3185 Erycard[™] Blood Type Test Kit

Note: This test kit is designed for educational/instructional use only. This test kit is not designed for clinical/medical/diagnostic use.

- 1. Using the alcohol swab clean the end of the fingertip from which the blood sample will be collected.
- 2. Remove the protective cap on the narrow end of the lancet by twisting and pulling it straight out. The protective cap is the longer narrow plastic piece, not the larger plastic piece on the wider end of the lancet.
- 3. Place the narrow end of the lancet firmly against the fingertip from which the sample will collected and press the push-button to activate the lancet. Remove the lancet from the puncture site and gently apply intermittent pressure near the puncture site to expel blood.
- 4. Use a blood collection stick to collect a sample by placing the cup-shaped end of the collection stick against the blood sample on the fingertip.
- 5. Transfer the blood sample to the well on the blood typing card marked "A" in the row marked "S" by placing the cup-shaped end of the collection stick with the blood sample flat against the pad in the well and allowing a few seconds for the blood sample to soak into the pad. DO NOT ADD THE BLOOD SAMPLE TO THE WELL IN THE ROW MARKED "R."
- 6. USING A NEW BLOOD COLLECTION STICK FOR EACH SAMPLE, repeat the procedure for the remaining wells marked "B," "D," and "Ctrl" in the row marked "S."
- 7. After a blood sample has been applied to all four wells in row "S" allow 45-60 seconds for the blood sample to react with the reagent on the sample pads.
- 8. After 45-60 seconds add two drops of buffer solution to each of the wells in the row marked "R" and observe for three minutes.
- 9. A positive reaction is observed by a well in row "S" remaining red. The well containing the sample in the well marked "Ctrl" should display a colorless result. If, after three minutes, the pad in the well marked "Ctrl" is not colorless the test should be considered invalid.
- 10. After three minutes, examine the wells and determine the ABO/Rh blood type. For example, if the wells "A" and "D" remain red the sample is determined to be A+, if only the "B" remains red, the sample is determined to be B-, etc.

SAFETY DATA SHEET

[®] by Aldon

221 Rochester Street Avon, NY 14414-9409

(585) 226-6177

GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

INNOVATING SCIENCE

"Cutting edge science for the classroom"

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

	-			
Product ERY	CARD 2.0 BLOOD GROUPING CARD	FOR ABORho(D)		
Synonyms Anti-	A, Anti-B, Anti-D with Autocontrol			
Section 2	Hazards identification			
to the Globally Ha Chemicals. Signal word: None Pictograms: No s Target organs: No GHS Classification GHS Label inform Precautionary stat	ymbol required one known n: None required ation: Hazard statement: None requi tement: None required erwise classified: otherwise classified (HHNOC) - Not K ot otherwise classified (PHNOC) - Not K	inown Known	Do not breat protective gluthoroughly a Supplemen	tal information: he mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wea oves/protective clothing/eye protection/face protection. Wash hands fter handling. Get medical attention if you feel unwell. tary information: ATIONAL PURPOSES ONLY!
Section 3	Composition / information on	0		
chemical Name		CAS #	%	EINECS
Monoclonal antiboo Neutral Reagent Sodium azide (as p	dies Anti-A, Anti-B, Anti-Rho (D) and preservative)	None listed 26628-22-8	Unknown <0.1% w/w	None listed 247-852-0

Some components are materials of biological origin. Since no test can guarantee that such materials will not transmit infection, due care should be exercised in their handling. All forms of direct contact should be avoided.

Section 4	First aid measures		

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. **Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Environmental Precautions: Contain spills and avoid release to the environment. Avoid runoff into storm sewers and ditches which lead to waterways. Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Protect from sunlight.

Section 8	Exposure controls / personal pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Sodium azide	STEL: C 0.29 mg/m ³ as NaN ₂ (A4)	None established	STEL: C 0.3 mg/m ³ as NaN ₂

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.							
Section 9	Physical and chemic	cal properties					
Appearance: gel matrix c Yellow reagent (Anti-B), C (colorless) Neutral Reage Odor: No odor. Odor threshold: Data no PH: Data not available. Melting / Freezing point: A Boiling point: Approximat Flash point: Data not av	contáining Blue reagent (<i>i</i> lear reagent (Anti-D), an nt pt available. pproximately 0°C (32°F) (w ely 100°C (212°F) (water)	Anti-A), Evaporation ra d Flammability (Explosion limi Vapor pressur Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not ts: Lower / Upper: I e (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): App a Complete in water.	Data not available r)	Auto-ignitic Decomposi Viscosity: Molecular f		: Data not available re: Data not available. ole. e
Section 10	Stability and reactiv	ity					
Chemical stability: Si Conditions to avoid:		Hazardo s which cause evapora	ous polymerization: tion. Protect from sun				
Incompatible material	s: Avoid contact with le	ead and copper (plumbi	ng metals), acids, and	oxidizing agents.			
Hazardous decompos	ition products: Carbo	on oxides, nitrogen oxid	es, and sodium oxide	5.			
Acute toxicity: [Sodiu Skin corrosion/irritati Serious eye damage/ Respiratory or skin s Germ cell mutagenici Carcinogenity: Data NTP: No component of IARC: No component of OSHA: No component of OSHA: No component of Ca Prop 65: This produ Reproductive toxicity STOT-single exposur STOT-repeated expose Aspiration hazard: D Potential health effect Inhalation: May be har Ingestion: May be har Skin: May cause irritati Eyes: May cause irritati Signs and symptoms contact. Although expoc cardiovascular, nervou Additional informatio Section 12	ion: Data not available irritation: Data not av- ensitization: Data not av- ensitization: Data not ity: Data not available f this product present a of this product present a of this product present a of this product present a ust does not contain an r: Data not available e: Data not available e: Data not available sure: Data not available ts: mful if inhaled. mful if inhaled. mful if swallowed. tion. of exposure: These j sure by these routes is s, respiratory and renai n: RTECS #: VY8050 Ecological informati	 27 mg/kg ; Dermal-ra ailable available t levels greater than or at levels greater than or at levels greater than or at levels greater than or y chemicals known to the absorbed through skin. products have compone unlikely, known symptod leffects. Exercise appr (000 [Sodium azide] on 	equal to 0.1% is identi equal to 0.1% is iden r equal to 0.1% is iden ne State of California to ents that are irritant to oms include nausea, v opriate procedures to	tified as probable, po ntified as a carcinoge o cause cancer or rep eyes, skin and mucoo omiting, diarrhea, gas	ssible or confirm n or potential ca productive toxic us membranes, stric pain, tiredn	ned human carc rrcinogen by OS ity. and which are f	
Toxicity to daphnia ar Toxicity to algae: No o Persistence and degr Mobility in soil: No da	nd other aquatic inver data available adability: No data ava ata available		na (Crustacia), EC50 ulative potential: No PvB assessment: N	data available o data available		m azide]	
Section 13	Disposal considerat	tions		-			
These disposal guide regulations may be d	elines are intended fo ifferent. Dispose of i	or the disposal of cata in accordance with all					ontainer. State and/or local mical disposal agency.
	Transport informati	on					
UN/NA number: N		Shipping name: N		Demonstrahla O	mating N-	R#	rine pollutopti N-
Hazard class: Not Exceptions: Not a		Packing group: N 2020 ERG Guide #		Reportable Qua	antity: NO	Ma	rine pollutant: No
	pplicable Regulatory informat						
A chemical is considered to	• •		is on the Inventory list.				
Component		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium azide		Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information						

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

SAFETY DATA SHEET

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Page E1 of E2

Section	1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc "Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product	PHOSPHATE BUFFERED SALINE SOLUT	ION		
Synonyms	Phosphate Buffer Solution, pH 7.2			
Section 2	Hazards identification			
This substa to the Globa Chemicals. Signal word Pictograms Target orga GHS Classi GHS Label Precautiona	t otherwise classified: t otherwise classified: data in the second se	ation and Labeling of	Do not brea protective g	ntal information: athe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wea gloves/protective clothing/eye protection/face protection. Wash hands after handling. Get medical attention if you feel unwell.
Physical haz	ards not otherwise classified (PHNOC) - Not I	Known		
Section 3	Composition / information on i	ngredients		

Chemical Name	CAS #	%	EINECS	
Water	7732-18-5	97.06%	231-791-2	
Sodium phosphate, dibasic, anhydrous	7558-79-4	1.82%	231-448-7	
Sodium chloride	7647-14-5	0.85%	231-598-3	
Potassium phosphate, monobasic	7778-77-0	0.27%	231-913-4	

Section 4 First aid measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale mist/vapours/spray. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Sodium phosphate	Not established	Not established	Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.	approved respirator.								
Section 9	Physical and chemical pro	perties							
Appearance: Clear, Odor: No odor. Odor threshold: Da pH: Data not availab Melting / Freezing point:	colorless liquid. ta not available. le. Approximately 0°C (32°F) (water) kimately 100°C (212°F) (water)	Evaporation rate (Water = 1): <1							
Section 10	Stability and reactivity								
Chemical stability: Conditions to avoid	Stable : Excessive temperatures which		ous polymerization: tion.	Will not occur.					
	als: Strong oxidizers, strong ac violently with strong bases.	ids, antipyrine, c	hloral hydrate, lead ad	cetate, pyrogallol, resc	orcinol, alkaloi	ids, water and m	oisture. May corrode aluminum		
Hazardous decomp	osition products: Sodium oxid	es and phosphoi	rous oxides and chlori	ne gas.					
Section 11	Toxicological information								
Serious eye damag Respiratory or skin Germ cell mutageni Carcinogenity: Dat NTP: No component IARC: No componen OSHA: No componen Ca Prop 65: This pro Reproductive toxici STOT-single expose STOT-repeated exp Aspiration hazard: Potential health effe Inhalation: May be ha Skin: Contact may ce Signs and symptom not available. Exerci Additional informat	of this product present at levels t of this product present at levels t of this product present at level duct does not contain any chem ty: Data not available ure: Data not available Data not available Data not available ets: armful if inhaled. armful if swallowed. ause irritation. cause irritation. se appropriate procedures to mi ion: RTECS #: WC4500000 [S	g/24 hours - mile greater than or e greater than or s greater than or icals known to th bur knowledge th nimize potential	d irritation [Sodium ph equal to 0.1% is identi equal to 0.1% is ident r equal to 0.1% is ider re State of California to hazards.	osphate] fied as a known or ant ified as probable, pos tified as a carcinogen o cause cancer or repr o cause cancer or repr	sible or confir or potential c roductive toxic	med human card arcinogen by OS city.			
Section 12	Ecological information								
Toxicity to daphnia Toxicity to algae: No Persistence and deg Mobility in soil: No Other adverse effec	Toxicity to fish: Rainbow trout (fish, fresh water), LC50: >100 ng/L/96 hours [Sodium phosphate] Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50: >100 ng/L/48 hours [Sodium phosphate] Toxicity to algae: No data available Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.								
Section 13	Disposal considerations								
	delines are intended for the or different. Dispose of in accor Transport information								
UN/NA number: Hazard class: Not Exceptions: Not	ot applicable Pack 2020	bing name: N ing group: N ERG Guide #	Ū	Reportable Qua	ntity: No	Ma	arine pollutant: No		
Section 15	Regulatory information	a anhudraa fa	is an the Investment of						
A chemical is considered Compone	d to be listed if the CAS number for t	ne anhydrous form	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65		
Phosphate de sodiun Sodium chloride Phosphate de potass	1	Listed Listed Listed	Not listed Not listed Not listed	Not listed Not listed Not listed	Listed Listed Listed	Not listed Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.		
Section 16	Other information								
							ered by them and must make indepen- s. NTP: National Toxicology Program,		

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

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