



Section 1 Identification				
Product name	PATHFAST Myo-II			
Catalog number	PF1111-K			
Recommended use	Reagent for <i>in vitro</i> diagnostic use			
Manufactured by	LSI Medience Corporation			
	13-4, Uchikanda 1-chome, Chiyoda-ku			
	Tokyo 101-8517 JAPAN			
	http://www.medience.co.jp			
Distributed by	Polymedco, Inc.			
	510 Furnace Dock Road			
	Cortlandt Manor, NY 10567 USA			
	www.polymedco.com			
Emergency number	(800) 431-2123 or (914) 739-5400			

Section 2 Hazards Identification				
Product description	 Reagent cartridge containing: Well #2: Alkaline phosphatase conjugated anti Myo MoAb Well #7: Anti Myo MoAb coated magnetic particles Well #13: Chemiluminescent substrate (CDP-Star) Well #11: Sample dilution buffer Well #3, 4, 5: Washing buffer Calibrator 1 (CAL-1) (1 bottle) Calibrator 2 (CAL-2) (1 bottle) 			
	(Myo: Human myoglobin) (MoAb : Monoclonal antibody)			
Hazard classification	All components are at concentrations that do not meet the criteria for classifying as dangerous or hazardous, respectively, under the regulations.			
Signal word	Not applicable.			
Pictogram	Not applicable.			
Any hazards not otherwise	No information available for the components of this kit. However, may be harmful by			
classified	inhalation, in contact with skin and if swallowed and may be irritating to skin and eyes.			



Sec	tion	3 Composition and Information on	Ingredients				
1)							
	a.	Alkaline phosphatase conjugated anti Myo MoAb (Well #2 50μ l)					
	Chemical name		CAS number	Concentration (%)	GHS Classification (see section 16)		
		Sodium azide (as preservative)	26628-22-8	0.05	H300 Acute Tox. 2		
					H400 Aquatic Acute 1		
					H410 Aquatic Chronic 1		
		Zinc chloride	7646-85-7	0.0007	H302 Acute Tox. 4		
					H314 Skin. Corr. 1B		
					H400 Aquatic Acute 1		
					H410 Aquatic Chronic 1		
		MES (2-Morpholinoethanesulfon	ic acid, monohyd	Irate) buffer solution o	containing sucrose, Lipidure A101-BS		
		(NOF CORP.), sodium chloride an	d so on (pH 6.0)	(1)			
	b.	Anti Myo MoAb coated magnetic p	oarticles (Well #	7 50 µl)			
		Suspension of Anti Myo MoAb co	ated polystyrene	magnetic latex partic	les in MOPS (3-		
		Morpholinopropanesulfonic acid)	buffer solution	containing sodium chl	oride, gelatin, and so on. (pH 7.0)		
	C.	CDP-Star (Well #13 100 μ l)					
		Aqueous solution containing CDF		iosystems). (pH 9.2) ⁽	2)		
	d.	Sample dilution buffer (Well $\#11$	50 µl)				
		<u>Chemical name</u>	<u>CAS number</u>	<u>Concentration (%)</u>	GHS Classification (see section 16)		
		Sodium azide (as preservative)	26628-22-8	0.05	H300 Acute Tox. 2		
					H400 Aquatic Acute 1		
					H410 Aquatic Chronic 1		
		MOPS buffer solution containing		•	rality)		
	e.	Washing buffer (Well #3,4,5 400	• • •				
		Chemical name	<u>CAS number</u>	<u>Concentration (%)</u>	GHS Classification (see section 16)		
		Sodium azide (as preservative)	26628-22-8	0.05	H300 Acute Tox. 2		
					H400 Aquatic Acute 1		
					H410 Aquatic Chronic 1		
		Triton X-100	9002-93-1	0.05	H302 Acute Tox. 4		
		(p-tertiary-Octylphenoxy			H319 Eye Irritation 2		
		polyethyl alcohol)			H411 Aquatic Chronic 2		
~	~~	MES buffer solution (pH 6.5)					
2) CAL-1 (1 bottle 2mL)							
		<u>emical name</u>	<u>CAS number</u>	Concentration (%)	<u>GHS Classification (see section 16)</u>		
	20	dium azide (as preservative)	26628-22-8	0.05	H300 Acute Tox. 2		
					H400 Aquatic Acute 1		
	т.:	o (9 Amino 9 hudrowmothul 19.	rononodial) hf	for colution containing	H410 Aquatic Chronic 1		
			nopaneuloi) but	ier solution containing	glycerin, Bovine serum albumin and		
	S0	on. (pH: 7.0) ⁽³⁾					



Section 3 Composition and Information on Ingredients (cont.)						
3) CAL-2 (1 bottle 2mL)						
<u>Chemical name</u>	<u>CAS number</u>	Concentration (%)	GHS Classification (see section 16)			
Sodium azide (as preservative)	26628-22-8	26628-22-8 0.05 H300 Acute Tox. 2				
			H400 Aquatic Acute 1			
			H410 Aquatic Chronic 1			
Tris buffer solution containing glycerin, Bovine serum albumin, Myo and so on. (pH: 7.0) ⁽³⁾						
All components are at concentrations that respectively, under the regulations.	do not meet the	criteria for classifying	as dangerous or hazardous,			

Section 4 First Aid Measures			
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if necessary.		
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while		
Ingestion	If swallowed, immediately wash out mouth thoroughly with water, do not induce vomiting. Call a physician and seek medical advice immediately.		
Inhalation	If inhaled, immediately move to fresh air. Call a physician if necessary.		
Notes to physician	Treat symptomatically.		

Section 5 Fire-Fighting Measures				
Flammable properties Components are nonflammable.				
Extinguishing modio	In case of fire, use suitable extinguishing media for the fire conditions (water,			
Extinguishing media	foam, dry chemical etc.)			
Special fire and explosion hazards	No information available.			
Hazardous combustion products	No information available.			
Protective equipment for firefighters	Wear suitable extinguishing apparatus for the fire conditions. Do not contact			
	the components when extinguishing fire.			

Section 6 Accident Release Measures				
Personal precautions, protective equipment, and emergency procedures	Wear appropriate protective equipment. Inform others to keep a safe distance.			
Containment and cleanup procedures	Land spill: Soak up clearly with paper or cloth. Water spill: Dilute with large quantity of water.			



Section 7 Handling and Storage				
Precautions for safe handling	Use suitable equipment. Do not pipette with mouth. Do not leak, overflow and scatter. Do not fall down and damage. Seal the cap exactly. For components containing Sodium azide, avoid prolonged contact with copper or lead, especially in drainage systems or mercury or other heavy metals which may result in the formation of explosive azides.			
Conditions for safe	Store in a cool and dark place at 36-47°F (2-8°C).			
storage, incompatibilities	Do not freeze.			

Section 8 Exposure Controls and Personal Protection			
Exposure limits:			
OSHA	No information available.		
ACGIH	No information available.		
Engineering controls	Equip sink and flushing eyes facilities near operating place.		
Personal protection	To prevent any contact, wear protective equipment such as safety glasses, rubber gloves, as		
reisonal protection	appropriate.		
Respiratory protection	Do not breathe mist.		
Hand protection	Wear disposable rubber gloves.		
Eye protection	Wear safety glasses with side shields, goggles or eye/face shield.		
Skin protection	Wear a laboratory coat and other protective overgarments (e.g., sleeve covers etc.).		

Section 9 Physical and Chemical Properties					
	Reagent cartridge				
	Alkaline phosphatase conjugated anti Myo MoAb	Anti Myo MoAb coated magnetic particles	CDP-Star	Sample dilution buffer	Washing buffer
Appearance	Liquid, Clear	Suspension liquid, Brown — Dark Brown	Liquid, Clear	Liquid, Clear	Liquid, Clear — Milky white
Odor	Odorless	Odorless	Odorless	Odorless	Odorless
Odor threshold	No information available	No information available	No information available	No information available	No information available
рН	6.0	7.0	9.2	Neutrality	6.5
Melting point / Freezing point	No information available	No information available	No information available	No information available	No information available
Initial boiling point and	No information	No information	No information	No information	No information
boiling range	available	available	available	available	available
Flash point	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Evaporation rate	No information available	No information available	No information available	No information available	No information available



Section 9 Physical and Chemical Properties (cont.)					
	Reagent cartridge				
	Alkaline phosphatase conjugated anti Myo MoAb	Anti Myo MoAb coated magnetic particles	CDP-Star	Sample dilution buffer	Washing buffer
Flammability (solid, gas)	Components are nonflammable	Components are nonflammable	Components are nonflammable	Components are nonflammable	Components are nonflammable
Upper/lower flammability or explosive limits	No information available	No information available	No information available	No information available	No information available
Vapor pressure	No information available	No information available	No information available	No information available	No information available
Vapor density	No information available	No information available	No information available	No information available	No information available
Relative density	No information available	No information available	No information available	No information available	No information available
Solubility	Mix free to water	Suspending free to water	Mix free to water	Mix free to water	Mix free to water
Partition coefficient	No information available	No information available	No information available	No information available	No information available
Auto-ignition temperature	No information available	No information available	No information available	No information available	No information available
Decomposition	No information	No information	No information	No information	No information
temperature Viscosity	available No information available	available No information available	available No information available	available No information available	available No information available

	CAL-1	CAL-2
Appearance	Liquid, Clear	Liquid, Slightly yellow
Odor	Odorless	Odorless
Odor threshold	No information available	No information available
рН	7.0	7.0
Melting point / Freezing point	No information available	No information available
Initial boiling point and boiling range	No information available	No information available
Flash point	Not applicable	Not applicable
Evaporation rate	No information available	No information available
Flammability (solid, gas)	Components are nonflammable	Components are nonflammable
Upper/lower flammability or explosive limits	No information available	No information available
Vapor pressure	No information available	No information available
Vapor density	No information available	No information available
Relative density	No information available	No information available
Solubility	Mix free to water	Mix free to water
Partition coefficient	No information available	No information available



Section 9 Physical and Chemical Properties (cont.)		
	CAL-1	CAL-2
Auto-ignition temperature	No information available	No information available
Decomposition temperature	No information available	No information available
Viscosity	No information available	No information available

Section 10 Stability and Reactivity		
Reactivity	No information available.	
Stability	Components are stable under normal handling and storage conditions.	
Possibility of hazardous reactions	For components containing Sodium azide, Sodium azide may liberate very toxic gas in contact with acids. Forms readily detonatable salts with many metals, particularly heavy metals. No information available for the remaining components.	
Conditions to avoid	Do not heat. Do not freeze. For components containing Sodium azide, avoid contact with incompatible materials.	
Incompatibilities	For components containing Sodium azide: Strong acids Strong bases Strong oxidizers Metals and metallic compounds	
Hazard decomposition products	For components containing Sodium azide, Sodium azide may liberate very toxic gas in contact with acids. Forms readily detonatable salts with many metals, particularly heavy metals. No information available for the remaining components.	



Sectio	on 11 Toxicological	Information		
			expos	ure (short term / long term effects):
Inhalation			No information available.	
Ingestion			May cause nausea, vomiting, stomachache and diarrhea.	
S	kin contact			May cause skin irritation.
E	ye contact			May cause eye irritation.
Symptoms related to the physical, chemical		al	No information available.	
	oxological characte			
-	Delayed, immediate and chronic effects from short- and long-term exposure		om	No information available.
-	Numerical measures of toxicity			No information available.
Other	information for So	dium azide, Zinc c	hlorid	e and Triton X-100
1)	Sodium Azide			
	Causes inflamma	tion and irritation	of the	eyes, nose, throat and bronchus.
	Inhalation and ing	gestion cause hea	dache	, vomiting, dizziness, low blood pressure, difficulty breathing, sense
			-	cur from acute cardiac collapse, and unconsciousness, systemic
	convulsion. The s			
	p.o.			710 μg/kg ⁽⁴⁾
	p.o.			27 mg/kg ⁽⁴⁾
	ivn			19 mg/kg ⁽⁴⁾
	par(skin)	Rabbit	LD50	20 mg/kg ⁽⁴⁾
2)	Zinc Chloride		<i>.</i>	
				eyes, skin and mucous membrane.
	-	gestion may cause	e naus	ea, vomiting, diarrhea, fever, sense of fatigue, joint-ache and
	leucocytosis.	Ilumon		4 800 mg/m ³ /20M (5)
	inhl inhl			4,800 mg/m ³ /30M ⁽⁵⁾ 1,960 mg/m ³ /10M ⁽⁵⁾
				350 mg/kg ⁽⁵⁾
	p.o. p.o.			329 mg/kg ⁽⁵⁾
3)	p.o. Triton X-100	INIDUSE	LDJU	JZJ IIKINK
Causes severe eye irritation. May cause skin irritation. Inhalation and ingestion may cause nausea, vomiting and diarrhea.				
	p.o.			1,800 mg/kg ⁽⁵⁾
	Par(skin)			8,000 mg/kg ⁽⁵⁾
Carcir	nogenicity			No information available.
	<u> </u>			



Section 12 Ecological Information	
	For components containing Sodium azide or Triton X-100, Sodium azide and
Ecotoxicity	Triton X-100 are toxic for aquatic organisms.
	No information available for the remaining components.
Persistence / degradability	No information available.
Bioaccumulation potential	No information available.
Mobility in soil (Adsorption / leaching)	No information available.
Other adverse effects (such as	No information available.
hazardous to the ozone layer)	

Section 13 Disposal Considerations	
Disposal methods	Dispose in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.
Properties that may affect disposal	For components containing Sodium azide, Sodium can react with copper or lead used in some plumbing systems to form explosive salts. The quantities used in this kit are small, nevertheless when disposing of azide-containing materials they should be flushed away with relatively large quantities of water. No information available for the remaining components.
Sewage disposal	Do not dispose of product into drains or sewers.
Precautions for landfills or incineration	No information available.

Section 14 Transport Information	
General transport information	Transport at 36-47°F (2-8°C). Confirm no leakage and give no damage when
	loading. Check loading exactly.
US DOT Hazardous Materials	Not applicable.
UN Number	Not regulated.
UN proper shipping name	Not applicable.
Transport hazard class	Not applicable.
Packing group	Not applicable.
Environmental hazards	No information available.
Guidance on transport in bulk	No information available.
Special precautions on transport	No further information available.



Section 15 Regulatory Information		
OSHA	This product does not meet the definition of a hazardous material under 29 CFR	
	1910.2000.	
TSCA	All components listed or exempted.	
SARA Title III	Not applicable.	
CERCLA Reportable Quantity	Not applicable.	
The above information is not intended to be a comprehensive listing of regulations pertinent to the product, and the		
regulations listed are subject to change. The user is responsible for observing all applicable local, state, and		
national/federal regulations in handling of the product.		

Section 16 Other Inform	ation
Date of preparation	31 May 2017
Last revision date	31 May 2017
Other information	
•	references and sources for data:
	ure A101-BS safety data sheet from supplier, NOF CORPORATION
	Star safety data sheet from supplier, Applied Biosystems, LLC.
	e serum albumin product specification from supplier, SeraCare Life Sciences, Inc.
	dangerous properties of industrial materials ($11^{ ext{th}}$ Edition)
	S (Registry of Toxic Effects of Chemical Substances, NIOSH)
Relevant H-sta	
	atal if swallowed
	armful if swallowed
	auses severe skin burns and eye damage
	auses serious eye irritation
	ery toxic to aquatic life
	ery toxic to aquatic life with long lasting effects
	oxic to aquatic life with long lasting effects
	SDS is believed to be accurate and complete at the time of revision. No warranty, express or
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•	ed relates only to the specific material designated herein, and does not relate to use in
	her material or process. The user of our products is responsible for observing any applicable laws
and guidelines.	