

Section 1 – Product and Company Identification
1.1 Manufacturer Information

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1.2 Product Information

Product Name: Purified Human Complement Proteins – A400 Series

Intended Use: Research reagents.

Components: The below components are contained within a Phosphate Buffer Saline (PBS) or Sodium Chloride solution.

Product Description	Custom Bulk Part Number	Custom Unit of Measure	Fixed Quantity Part Number	Fixed Quantity in each Unit
C1q Purified Human Complement Protein	A2184	mg	A400	1.0 mL
C3 Purified Human Complement Protein	A2186	mg	A401	0.25 mL
C3 Concentrated Purified Human Complement Protein	A7752	mg	A401c	0.2 mL
C4 Purified Human Complement Protein	A2185	mg	A402	0.25 mL
C5 Purified Human Complement Protein	A2187	mg	A403	0.25 mL
C6 Purified Human Complement Protein	A2188	mg	A404	0.25 mL
C7 Purified Human Complement Protein	A2189	mg	A405	0.25 mL
C8 Purified Human Complement Protein	A2190	mg	A406	0.25 mL
C9 Purified Human Complement Protein	A2191	mg	A407	0.25 mL
Factor B Purified Human Complement Protein	A2192	mg	A408	0.25 mL
Factor D Purified Human Complement Protein	A2196	mg	A409	0.25 mL
Factor H Purified Human Complement Protein	A2193	mg	A410	0.25 mL
Factor I Purified Human Complement Protein	A2194	mg	A411	0.25 mL
Factor P Purified Human Complement Protein	A2195	mg	A412	0.25 mL
C3b Purified Human Complement Protein	0903	mg	A413	0.25 mL
C3a Purified Human Complement Protein	0982	mg	A414	0.10 mL
SC5b-9 Complex Purified Human Complement Protein	A2183	mg	A415	0.10 mL
Factor Bb Fragment Purified Human Complement Protein	A2127	mg	A416	0.25 mL
C3c Purified Human Complement Protein	A2177	mg	A417	0.25 mL
C3d Purified Human Complement Protein	A2178	mg	A418	0.10 mL
C4a Purified Human Complement Protein	A7901	mg	A419	0.10 mL
C5a Purified Human Complement Protein	A7902	mg	A420	0.06 mL

Section 1 – Product and Company Identification (cont'd)

Product Description	Custom Bulk Part Number	Custom Unit of Measure	Fixed Quantity Part Number	Fixed Quantity in each Unit
Factor Ba Purified Human Complement Protein	A7904	mg	A422	0.10 mL
iC3b Purified Human Complement Protein	A7905	mg	A423	0.25 mL
C1r Enzyme Purified Human Complement Protein	A7912	mg	A424	0.25 mL
C1s Enzyme Purified Human Complement Protein	A7914	mg	A425	0.25mL
C1 Esterase Inhibitor Human Complement Protein	A7915	mg	A426	1.0mL
C2 Purified Human Complement Protein	A7916	mg	A427	0.10mL
C4b Purified Human Complement Protein	A7917	mg	A428	0.25mL

Section 2 – Hazard Identification

- 2.1 Classification of the Substance or Mixture(s)** Not a hazardous substance or mixture.
- 2.2 GHS Label Elements, including Precautionary Statements** Not a hazardous substance or mixture.
- 2.3 Supplemental Hazard Information**
- Human Source Material. Follow Universal Precautions when working with these components. Refer to additional Universal Precaution information in Section 7, Handling and Storage.
 - Wash hands thoroughly after handling these components (P264).

Section 3 – Composition / Information on Ingredients

- 3.1 Mixtures**
 Contains non-hazardous quantities of proprietary ingredients according to OSHA (29 CFR 1910.1200).
 Not a hazardous mixture according to Regulation (EC) No. 1272/2008.
- 3.2** No chemicals need to be disclosed according to the applicable regulations for the components in this kit.

Section 4 – First Aid Measures

- 4.1 Description of First Aid Measures**
- If inhaled:*** Move the person to fresh air and support breathing as required.
- In case of skin contact:*** Wash affected area with soap and water. Seek medical advice if irritation develops.
- In case of eye contact:*** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
- If swallowed:*** Never give anything by mouth to an unconscious person. Rinse mouth with water (do not swallow). Seek medical advice if irritation develops.
- 4.2 Most Important Symptoms and Effects (both acute and delayed)**
 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**
 No specific measures identified.

Section 5 – Fire Fighting Measures

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to extinguish a fire.

5.1 Suitable Extinguishing Media

For small fires, use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 Special Hazards Arising from the Substance or Mixture

Nature of decomposition products not known.

5.3 General Fire Hazards

These components will not significantly contribute to the intensity of a fire.

5.4 Fire Fighting Equipment

Firefighters should wear full protective gear when responding to fires.

Section 6 – Accidental Release Measures

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to clean up a spill or release. A large spill of the components contained within this kit is unlikely.

6.1 Personal Precautions

Use personal protective equipment (PPE), including gloves and safety glasses when cleaning up small spills of these components. Avoid breathing vapors, mist or gas.

6.2 Methods and Materials for Clean-Up

Wipe up with inert absorbent material (e.g., paper towel, etc.). Thoroughly wash the area with soap and water after a spill or release clean-up.

6.3 Recovery and Neutralization

Collect spilled material and clean-up supplies and place in a sealed container for disposal. Refer to Section 13 for disposal guidance.

6.4 Environmental Precautions

Contain spill to prevent migration to drains, sewers or open water sources. Discharge to the environment must be avoided.

Section 7 – Handling and Storage**7.1 Specific Use**

For professional use only. Not for use by the general public.

7.2 Precautions for Safe Handling

As with all chemical and biological substances, avoid getting these components ON YOU or IN YOU. Wash exposed areas thoroughly after working with these components. Do not eat or drink while working with these components. These components should be handled only by qualified clinical or laboratory employees trained on the safe use of these components and who are familiar with the potential hazards.

7.3 Universal Precautions

No known test method can offer complete assurance that product(s) derived from human blood, serum or plasma used in components of this kit will not transmit infectious agents. All blood products should be treated as potentially infectious; use universal precautions. Users should ensure the use of proper personal protective equipment (PPE), covering of any cuts or abrasions on the skin (hands), and follow standard protocols for the decontamination of work surfaces when testing has been completed. Always wash hands thoroughly after handling the components within this kit.

7.4 Conditions for Safe Storage (including any incompatibilities)

To maintain efficacy, store according to the package insert instructions.

7.5 Incompatibilities

To maintain efficacy, store according to the package insert instructions.

Section 8 – Exposure Controls and Personal Protection

- 8.1 Exposure Limits** No data available for the components referenced in Section 2.
- 8.2 Exposure Controls**
- Engineering Measures Use with adequate ventilation.
- Personal Protective Equipment
- Respiratory Protection* None needed under normal conditions of use.
- Skin Protection* Handle with appropriately rated chemical resistant gloves. Gloves should be inspected prior to use. Use proper glove technique to remove gloves to avoid contact with skin. Wash hands after handling the components within this kit.
- Eye Protection* Wear safety glasses with side shields or goggles to prevent eye contact.
- Body Protection* Use body protection appropriate for the task. A laboratory coat is recommended.
- Hygiene Measures* Wash hands before use, after use and at the end of the workday.
- 8.3 Environmental Exposure Controls** No special environmental controls are required.
- 8.4 Special Notes** No data available.

Section 9 – Physical and Chemical Properties

Characteristic	Purified Human Complement Proteins – A400 Series
Boiling Point (°C)	No data available
Melting Point (°C)	No data available
Specific Gravity (H ₂ O = 1)	No data available
Vapor Pressure (mm Hg)	No data available
Vapor Density (Air = 1)	No data available
pH	6.0-7.6
Solubility in Water	Soluble
Appearance and Odor	Clear liquid, mild odor

Section 10 – Stability and Reactivity

Characteristic	Purified Human Complement Proteins – A400 Series
Component Stability	Stable
Hazard Reaction Potential	No data available
Conditions to Avoid	No data available
Materials to Avoid	No data available
Hazardous Decomposition Products	No data available

Section 11 – Toxicological Properties

11.1 Information on Toxicological Effects

Acute Toxicity	No data available	
Skin Corrosion / Irritation	No data available	
Respiratory or Skin Sensitization	No data available	
Generative Cell Mutagenicity	No data available	
Carcinogenicity	No component of this kit present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the ACGIH, IARC, NTP or OSHA.	
Reproductive Toxicity	No data available	
Teratogenicity	No data available	
Specified Target Organ Toxicity		
<u>Single Exposure:</u>	No data available	
<u>Repeated Exposure:</u>	No data available	
Aspiration Hazard	No data available	
Potential Health Effects		
<i>Inhalation:</i>	May cause respiratory tract irritation.	<i>Skin:</i> May cause skin irritation upon contact.
<i>Ingestion:</i>	May be harmful if swallowed.	<i>Eyes:</i> May cause eye irritation.

11.2 Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated for these components.

11.3 Additional Information

None known.

Section 12 – Ecological Information

12.1 Toxicity	No data available
12.2 Persistence and Degradability	No data available
12.3 Bioaccumulative Potential	No data available
12.4 Mobility in Soil	No data available
12.5 PBT and vPvB Assessment	No data available
12.6 Other Adverse Effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 – Disposal Considerations

13.1 Waste Disposal Instructions

Utilize appropriate personal protective equipment and spill control when handling wastes generated from using this kit. Do not discharge any of the solutions, reagents or controls into drains, water courses or onto the ground.

13.2 Disposal of Product and Contaminated Packaging

Dispose of waste materials, unused components and contaminated packaging in compliance with country, federal, state and local regulations. If unsure of the applicable regulatory requirements, contact a licensed professional waste disposal service to dispose of this material.

Section 14 – Transportation Information

- 14.1 U.S Department of Transportation (DOT)** These components are not regulated for transport.
- 14.2 International Air Transportation Association (IATA)** These components are not regulated for transport.
- 14.3 International Maritime Dangerous Goods (IMDG)** These components are not regulated for transport.

Section 15 – Regulatory Information**15.1 U.S. Federal Regulations**

- OSHA Hazards None
- SARA 302 The following chemicals are subject to reporting levels established by Sara Title III, Section 302:
No chemicals in these components are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 The following chemicals are subject to reporting levels established by SARA Title III, Section 313:
No chemicals in these components are subject to the reporting requirements of SARA Title III, Section 313.
- SARA311/312 None

15.2 State Regulations

The following chemicals appear on one or more of the following state hazardous substance lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
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California Prop 65: This kit does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

15.3 Canadian – WHMIS Classification

Chemical Name	CAS #	Classification
--	--	Not classified.

15.4 Additional Regulatory Information**Safety, Health and Environmental Regulations/Legislation Specific for the Mixture**

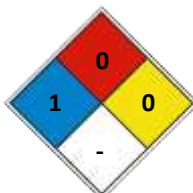
European Union – Regulation (EC) 1907/2006

Chemical Safety Assessment

Not completed for the components contained within this kit.

NFPA Kit Classification:

- Health Hazard (blue): 1
Fire Hazard (red): 0
Reactivity (yellow): 0
Special Hazards (white): None



****Follow Universal Precautions when handling these components.**

Section 16 – Other Information

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SUPERSEDES: October 2, 2017

REVISIONS: Section 2, added C3 Concentrated Purified Human Complement Protein (A401c); Section 2, updated Supplemental Hazard information; Section 4.3, removed physicians statement; Sections 9 and 10, updated the column titles; Section 15, updated the Canadian WHMIS section; and general format updates.

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