

1. IDENTIFICATION

Product name: Alpha-Fetoprotein (AFP) (CATALOG No. TM1009)

Product Use: For the quantitative determination of Alpha-Fetoprotein (AFP) in serum.

Supplier: POINTE SCIENTIFIC INC.
5449 Research Drive
Canton, Michigan 48188
Ph: 1-734-487-8300
Fax: 1-734-483-1592
Email: info@pointescientific.com

Emergency: Pointe Scientific, Inc. Tel. 1-800-445-9853

2. HAZARD(S) IDENTIFICATION

Conjugate Reagent:

Hazard Classifications:

Sensitization, skin (Category 1)

Hazard Statements

H317: May cause an allergic skin reaction

Precautionary Statements

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P363: Wash contaminated clothing before reuse.
P302 + P352: IF ON SKIN: wash with plenty of soap and water.
P333 + P313: IF SKIN irritation or rash occurs: Get medical advice/attention.

Storage:

N/A

Disposal:

P501: Dispose of contents to an approved waste disposal plant.



Signal Word: Warning

Reference Standards:

Hazard Classifications:

Sensitization, skin (Category 1)

Hazard Statements

H317: May cause an allergic skin reaction

Precautionary Statements

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P363: Wash contaminated clothing before reuse.
P302 + P352: IF ON SKIN: wash with plenty of soap and water.
P333 + P313: IF SKIN irritation or rash occurs: Get medical advice/attention.

Storage:

N/A

Disposal:

P501: Dispose of contents to an approved waste disposal plant.



Signal Word: Warning

SAFETY DATA SHEET

Zero Buffer:

Hazard Classifications:

Sensitization, skin (Category 1)
Skin Corrosion/Irritation (Category 2)

Hazard Statements

H315: Causes skin irritation
H317: May cause an allergic skin reaction

Precautionary Statements

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P363: Wash contaminated clothing before reuse.
P302 + P352: IF ON SKIN: wash with plenty of soap and water.
P333 + P313: IF SKIN irritation or rash occurs: Get medical advice/attention.

Storage:

N/A

Disposal:

P501: Dispose of contents to an approved waste disposal plant.



Signal Word: Warning

TMB Reagent:

Hazard Classifications:

Not a hazardous substance or mixture.

Pictogram:

Not required.

Signal Word:

Not required.

Hazard Statements

Not a hazardous substance or mixture.

Precautionary Statements

Not a hazardous substance or mixture.

Stop Solution:

Hazard Classifications:

Skin corrosion/irritation (Category 1)
Serious eye damage/eye irritation (Category 1)
Sensitization, respiratory (Category 1)
Specific target organ toxicity, single exposure; respiratory system (Category 1)
Specific target organ toxicity, repeat exposure; respiratory system and teeth (Category 1)

Hazard Statements

H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H370: Causes damage to organs
H372: Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P285: In case of inadequate ventilation wear respiratory protection.



Signal Word: Danger

SAFETY DATA SHEET

Response:

P310: Immediately call a POISON CENTER or doctor/physician.
 P314: Get medical advice/attention if you feel unwell.
 P363: Wash contaminated clothing before reuse.
 P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
 P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307 + P311: IF exposed: call a POISON CENTER or doctor/physician.
 P342 + P311: IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

Storage:

P404: Store in a closed container.

Disposal:

P501: Dispose of contents to sewer system, if in accordance with local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Conjugate Reagent: Proclin 300 (CAS # 55965-84-9) <0.1%
Reference Standards: Proclin 300 (CAS # 55965-84-9) <0.1%
Zero Buffer: Proclin 300 (CAS # 55965-84-9) <0.1%
TMB Reagent: 3,3',5,5'-Tetramethylbenzidin (CAS # 54837-17-7) ≤0.05%
Stop Solution: Hydrochloric Acid (CAS # 7647-01-0) <3.65%

4. FIRST AID MEASURES

SKIN: In case of contact, immediately take off contaminated clothing and/or shoes. Wash off with soap and plenty of water. Consult a physician.
EYES: Rinse thoroughly with plenty of water for at least 15 minutes and get medical attention. Continue rinsing eyes during transport to a medical facility.
ORAL: Do not induce vomiting. Rinse mouth with water. Consult a physician.
INHALATION: If inhaled move victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen, and call physician.

5. FIRE-FIGHTING MEASURES

Flammable: NO
Extinguishing media: As appropriate for fire in surrounding materials. Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Flash point: Not Applicable
Upper flammable limit: Not Applicable
Lower flammable limit: Not Applicable
Auto ignition temperature: Not Applicable
Hazardous combustion products: Not Available

Explosion data

Sensitivity to mechanical impact: Not Applicable
Sensitivity to static discharge: Not Applicable
Unusual fire and explosion hazards: No Data

6. ACCIDENTAL RELEASE MEASURES

Local exhaust: Not Required
Protective clothing: Lab Coat
Protective gloves: Rubber/Latex
Eye protection: Safety glasses
Respiratory protection: Required if inadequate ventilation.
Leak and spill procedure: Soak up with absorbent material and dispose of to a waste disposal plant. Prevent entry into water system.

7. HANDLING AND STORAGE

Handling: Normal precautions for handling chemicals must be observed.
Storage: Store between +2°C and +8°C

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Shipping regulations: Not regulated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Local exhaust: Not Required
Protective clothing: Lab Coat
Protective gloves: Rubber/Latex
Eye protection: Safety glasses
Respiratory protection: None normally required.
Other precautions: Avoid contact and inhalation, do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Kit Component	Standard/Conjugate/ Zero Buffer/	TMB Reagent (3,3',5,5'- Tetramethylbenzidin)	Stop Solution (1N HCl)
(a) Appearance: Form:	Liquid	Liquid	Liquid
Color	Diverse (has no influence to the properties of the mixture)		
(b) Odour		odourless	
(c) Odour threshold		no data available	
(d) pH	7.0 – 7.4	3.35 – 3.75	< 1.0
(e) Melting point/freezing point	no data available	no data available	no data available
(f) Initial boiling point and boiling range	no data available	no data available	no data available
(g) Flash point	no data available	no data available	no data available
(h) Evaporation rate	no data available	no data available	no data available
(i) Flammability (solid, gas)	no data available	no data available	no data available
(j) Upper/lower flammability or explosive limits	no data available	no data available	no data available
(k) Vapor pressure	no data available	no data available	no data available
(l) Vapor density	no data available	no data available	no data available
(m) Relative density	no data available	no data available	no data available
(n) Solubility(ies)	no data available	no data available	no data available
(o) Partition coefficient: n-octanol/water	no data available	no data available	no data available
(p) Auto-ignition temperature	no data available	no data available	no data available
(q) Decomposition temperature	no data available	no data available	no data available
(r) Viscosity	no data available	no data available	no data available
(s) Explosive properties	no data available	no data available	no data available
(t) Oxidizing properties	no data available	no data available	no data available

10. STABILITY AND REACTIVITY

Stable: Yes
Hazardous polymerization: Will not occur.
Incompatibility with other substances: No materials known.
Hazardous decomposition products: Not Available

11. TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY/EXPOSURE

SKIN CONTACT: [x] EYE CONTACT: [x] INHALATION: [x] INGESTION: [x] SKIN ABSORPTION [x]

Effects of acute exposure:

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SKIN CONTACT: May cause irritation.
EYE CONTACT: May cause irritation.
INGESTION: May be harmful if ingested.
INHALATION: May cause irritation to mucous membranes and upper respiratory tract.

Effects of chronic exposure: No data available.

SENSITIZATION TO PRODUCT: Not Available
SYNERGISTIC PRODUCTS: Not Available
LD50: MOPSO: Not Available

12. ECOLOGICAL INFORMATION

Water Hazard Class: Data not yet available

13. DISPOSAL CONSIDERATIONS

Waste disposal: Dispose of in accordance with local official environmental regulations

14. TRANSPORT INFORMATION

Shipping information: Not regulated

15. REGULATORY INFORMATION

Not applicable.

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 laws and guidelines applicable.

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