

MATERIAL SAFETY DATA SHEET

1.0 **Product and Company Identification**

Product/Kit Name: Serum Protein Electrophoresis (SPE) Kit

Product Code: XK003

Manufacturer: The Binding Site Ltd
 PO Box 11712
 Birmingham
 England
 B14 4ZB

Tel: + 44 (0)121 436 1000

2.0 **Composition/Information on Ingredients**

The kit is composed of components which contain the following chemical constituents.

Component	Chemical	Conc.	CAS#	EINECS#
Buffer Powder	Barbitone	Total	57-44-3	200-331-2
	Sodium Barbitone	100%	144-02-5	205-613-9
Protein Stain	Acid Blue 29	5%	5850-35-1	Not listed
	in 5% acetic acid		64-19-7	200-580-7
SPE gels	Sodium Azide	0.099%	26628-22-8	247-852-1
	E-Amino-N-Caproic Acid	0.1%	60-32-2	200-469-3
	Benzamidine	0.01%	1670-14-0	216-795-4
	Proclin 300	0.05%	Not defined	Not listed

3.0 **Hazards Identification**

Buffer Powder - HARMFUL

Harmful by inhalation and if swallowed.

Potential Health Effects:

May cause eye and skin irritation

Prolonged or repeated exposure may cause sensitisation

Prolonged or repeated exposure can lead to addiction

All other components in this product contain substances that are either non hazardous or at concentrations below that requiring the issue of an individual specific safety data sheet. However general safety precautions should be observed and appropriate procedures used to prevent direct contact with the eyes or skin and to prevent inhalation.

4.0 First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Ingestion: If ingested, wash out mouth with water. Call a physician.

5.0 Fire Fighting Measures

Special exposure hazard: If involved in a fire, the buffer powder emits toxic fumes.

Extinguishing media: Use extinguisher most appropriate to surrounding fire.

6.0 Accidental Release Measures

Personal Protection: Wear eye protection and gloves. Wear a suitable dust mask if the situation demands.

Leaks and spills: Ventilate the area. Sweep up spilled substance, avoid making dust. Transfer to a closable salvage container and arrange for disposal by the appropriate method. Wash spill site with large amounts of water

7.0 Storage and Handling

Storage conditions: Store in a cool dry area away from incompatible materials.

Handling Precautions: Avoid inhaling, ingestion and contact with skin and eyes. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

8.0 Exposure controls/Personal Protection

Respiratory protection: Use only in a chemical fume hood.

Hand Protection: Wear suitable gloves.

Eye Protection: Wear eye/face protection.

Skin Protection: Wear suitable protective clothing.

9.0 Physical and Chemical Properties

Appearance:	White powder
Odour:	Odourless
Boiling Point:	N/A
Flash Point:	N/A
Melting Point:	N/A

10.0 Stability and Reactivity

Materials to avoid:	Strong oxidising agents
Chemical Stability:	Stable under normal temperatures and pressures

11.0 Toxicological Information

RTECS No CQ3850000 - CAS# 144-02-5

LD50 Oral Rat: 600mg/kg, Oral Mouse: 800mg/kg

See actual entry in RTECS for complete information

Health effects

Acute

Effects of overexposure include sedation, hypnosis and coma depending on amount ingested.

Chronic

May cause congenital malformation in the foetus

Prolonged or repeated exposure can lead to habituation or addiction

Repeated exposure may cause sensitisation in certain individuals

12.0 Ecological Information

No environmental hazard is anticipated if all components of this product are handled and disposed of with due care.

13.0 **Disposal**

Observe all federal, state and local environmental regulations.

****Please note that in the UK, Barbitone is a scheduled drug controlled by the Misuse of Drugs Act 1971 and must only be disposed of by authorised and licensed personnel.**

Use appropriate methods for disposal of the remaining kit contents and consumables used.

14.0 **Transport Information**

Product is not classified as hazardous for transport

15.0 **Regulatory Information**

Harmful - Xn

Risk Phrases:

R20/22 - Harmful by inhalation and if swallowed

Safety Phrases:

S22 - Do not breathe dust

S28 - After contact with skin wash immediately with plenty of water

S36 - Wear suitable protective clothing.

S45 - In case of accident or if you feel unwell, seek medical advice immediately. Show label where possible.

16.0 **Other Information**

All products should be handled only by persons experienced in laboratory techniques. Storage and stability information is given on the product profile. The products are for 'in vitro' use only and should not be used for 'in vivo' for therapeutic purposes.

The above information is believed to be correct but does not purport to be all-inclusive. The Binding Site Ltd shall not be held liable for any damage resulting from handling or contact with this product.

Revised Document