

Section 1. Identification of the substance/mixture and of the company/undertaking**Product Details****Product Code** PX-BPD-LB**Product Name** Pro Lysis Buffer

A.	Pro Resuspension Buffer
B.	Pro Lysis Buffer
C.	Pro Neutralization Buffer
D.	Pro Wash Buffer 1
E.	Pro Wash Buffer 2
F.	Pro Wash Buffer 3
G.	Pro Elution Buffer
H.	RNase A Solution

Recommended Usage**Identified Uses** Scientific research/Laboratory use**Manufacturer**

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Section 2. Health hazard(s)**Substance/Mixture Classification**

GHS Classification according to Regulation (EC) No. 1272/2008

Signal Word

Warning

Hazard Pictograms**Health Hazards****H302**

Harmful if swallowed

H315

Causes skin irritation

H319

Causes serious eye irritation

**Label Elements****Physical Hazards**

Information not available

Environmental Hazards

Not Classified

Statements**P210**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P264

Wash hands thoroughly after handling

P280

Wear protective gloves/clothing/eye and face protection

P273

Prevent environmental discharge

P233

Keep container tightly closed

Precautionary Measures**P301 + P312**

IF SWALLOWED: Call a poison centre or doctor if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

Disposal

P501 Dispose of contents and container according to local regulations

Other Hazards

Not applicable

Storage

Not applicable

Section 3. Composition/information of ingredients**Substances**

Not Applicable

Mixtures

Component	CAS No.	EC No.	Classification	Weight
Sodium dodecyl sulphate	151-21-3	205-788-1	H228+H302+H312+ H315+H319+H335 Flamm. Sol Acute Tox. 4 Acute Tox. 4 Skin Corr. 1C Eye Irrit. 1 STOT SE 3 (respiratory damage)	>= 1 - < 10 %

We recommend handling all the chemicals with care.

Section 4. First aid measures**General Advice**

- Seek Medical Attention: Consult a doctor immediately.
- Show SDS: Present this safety data sheet to the attending physician.

If Inhaled

- Move to Fresh Air: If inhaled, relocate the person to a well-ventilated area.
- Check Breathing: If not breathing, administer artificial respiration.
- Get Medical Help: Seek immediate medical assistance.

If Skin Contact

- Wash Thoroughly: Rinse the affected area with soap and plenty of water.
- Consult a doctor: Consult a physician for further evaluation.

If Eye Contact

- Rinse Immediately: Flush eyes with plenty of water for at least 15 minutes.
- Seek Medical Care: Consult a doctor promptly.

If Swallowed

- Do Not Give Anything by Mouth: If the person is unconscious, do not give anything orally.
- Drink Water: Make the person drink more and more water. Consult the doctor if needed.

Instructions for necessary medical attention and specific treatment

None

Important Note

None

Section 5. Firefighting measures

Extinguishing Media

Suitable Extinguishing Media:

- Select extinguishing agents appropriate for the specific circumstances and the surrounding environment.

Unsuitable Extinguishing Media:

- No limitations are specified for extinguishing agents for this substance/mixture.

Special Hazards

- Non-Combustible: The substance itself is not flammable.
- Hazardous Vapours: Ambient fires may release hazardous vapours.

Advice for Firefighters

- Wear Self-Contained Breathing Apparatus (SCBA): Only enter the danger zone with SCBA.
- Protect Skin: Maintain a safe distance or wear suitable protective clothing to prevent skin contact.

Further Information

- Suppress Vapours: Use a water spray jet to suppress gases, vapours, or mists.
- Prevent Water Contamination: Avoid contaminating surface water or groundwater systems with firefighting water.

Section 6. Accidental release measures

Personal Precautions, Protective Equipment, and Emergency Procedures

- Use PPE: Employ appropriate personal protective equipment (PPE).
- Avoid Inhalation: Prevent breathing vapours, mist, or gas.
- Ensure Ventilation: Provide adequate ventilation.

Environmental Precautions

- Prevent product from entering the sewer system.

Containment and Cleanup

- Absorb and Dispose: Soak up spills with an inert absorbent material and treat as hazardous waste.
- Proper Storage: Store the collected material in suitable, closed containers for disposal.

Disposal Reference

- For disposal instructions, consult Section 13.

Section 7. Handling and storage

Precautions for Safe Handling

- Avoid inhalation
- Wear protective gloves and clothing before use.

Hygiene Measures

- Immediately remove and change contaminated clothing.
- Wash hands and face after working with the substance.

Safe Storage Conditions

- Store in a dry, cool, and well-ventilated location.
- Use properly labelled containers.

Specific end use(s)

Intended for laboratory use only. Scientific research and development.

Section 8. Exposure controls/personal protection**Control Parameters**

Contains no substances with occupational exposure limit values.

Exposure Controls**Personal Protective Equipment**

- **Eye/Face Protection:** Use eye protection equipment that meets appropriate government standards. Safety glasses are recommended.
- **Skin and Body Protection:** Wear gloves and lab coats before handling. Dispose of contaminated gloves properly and wash hands thoroughly.
- **Respiratory Protection:** When vapours or aerosols are generated, wear respiratory protection. Ensure proper maintenance, cleaning, and testing of respiratory protective devices according to manufacturer's instructions and document these procedures.

Control of Environmental Exposure

- Prevent Drain Discharge

Section 9. Physical and chemical properties

S.No.	Parameter	Property
1	Physical state	Liquid
2	Appearance	Clear Solution
3	Odour	No data available
4	pH	12.0-13.0
5	Melting point/freezing point	No data available
6	Initial boiling point and boiling range	No data available
7	Flammability (solid, gas)	No data available
8	Upper/lower flammability or explosive limits	No data available
9	Flash point	No data available
10	Autoignition temperature	No data available
11	Decomposition temperature	No data available
12	Viscosity	No data available
13	Water solubility	Soluble at 20°C
14	Partition coefficient: n-octanol/water	No data available
15	Vapor pressure	No data available
16	Density	1.01 g/cm ³
17	Relative vapor density	No data available
18	Particle characteristics	No data available
19	Explosive properties	Not classified as explosive
20	Oxidizing properties	None

Section 10. Stability and reactivity**Reactivity**

Revision Date: 25.07.25
Product Code: PX-BPD-LB

Product Name: Pro Lysis Buffer

- No information available.

Chemical Stability

- Stable under ambient conditions

Possibility of Hazardous Reactions

- Not reported

Conditions to Avoid

- Information on conditions to avoid is not currently available.

Incompatible Materials

- Information not available.

Hazardous Decomposition Products

- Not applicable

Section 11. Toxicological Information

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity

Sodium dodecyl sulphate

- Acute toxicity estimates Oral - LD50 Oral (Rat): 977 mg/kg (Calculation method)
- Acute toxicity estimates Dermal - LD50 Dermal (Rabbit): 580 mg/kg

Skin Corrosion/Irritation

- Causes skin irritation

Serious Eye Damage/Eye Irritation

- Mixture causes serious eye damage

Respiratory or Skin Sensitization

- Information on respiratory or skin sensitization is not available.

Germ Cell Mutagenicity

- Information on germ cell mutagenicity is not available.

Carcinogenicity

- Information on carcinogenicity is not available.

Reproductive Toxicity

- Information on reproductive toxicity is not available.

Specific Target Organ Toxicity

- Information not available

Aspiration Hazard

- Information on aspiration hazard is not available.

Section 12. Ecological information

Toxicity

- Toxicity to Fish: NOEC (Oncorhynchus mykiss (rainbow trout)): 19.5 mg/l
Exposure time: 96 h
LC50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l
Exposure time: 96 h
- Toxicity to green algae: 2.68 mg/l
Exposure time: 150 h
Test Type: Growth inhibition

Persistence and Degradability

- No data available

Bioaccumulative Potential

- No data available

Mobility in Soil

- No data available

PBT and vPvB Assessment

- **No PBT or vPvB Components:** This substance/mixture does not contain components classified as persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

Section 13. Disposal consideration

Waste Treatment Methods

- **Waste Reduction:** Minimize or avoid waste generation whenever possible.
- **Proper Disposal:** Empty containers or liners may retain product residues. Dispose of these materials according to approved disposal methods.
- **Regulatory Compliance:** Ensure that disposal of the product, its solutions, or by-products complies with all relevant local, regional, or national/federal regulations.

Section 14. Transport information

Un Number

Not applicable

UN proper shipping name

Not applicable

Transport Hazard Class

Not applicable

Packing group

Not applicable

Environmental hazards

Not applicable

Special precautions for user

Not Applicable

Section 15. Regulatory information**Safety health and environment regulations/legislation specific for the substance or mixture**

No data available

Chemical Safety Assessment

No data available

Other information

No data available

Disclaimer

This product is intended for research and development use only and is not to be utilized for any drug, household, or other unauthorized uses. Users must consult the accompanying Material Safety Data Sheet (SDS) for information pertaining to hazards, proper handling, and safety precautions associated with this product. The manufacturer disclaims any liability for use other than as specified herein.

The SDS outlines specific measures to protect yourself and the environment, such as wearing appropriate PPE, working in well-ventilated areas, and avoiding contact with incompatible materials. It also provides instructions on how to respond to spills, leaks, and emergencies. By following the guidelines provided in this document, you can contribute to a safe and healthy working environment.

--End of Safety Data Sheet--