



# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

Rev A3: 10/08/2023

## SECTION 1: Identification of the Substance and Company/Undertaking

### 1.1 Product Identifier

**Product name:** egSEQ Hyb & Wash Kit (Module A)  
**Cat. No.** EG1301  
**Specification** 96rxn  
**Component Cat. No.** EG130101 Hyb Human Block  
 EG130102 RNase Block  
 EG130103 Hyb Buffer

### 1.2 Relevant identified uses of the substance and uses advised against

**Identified Uses:** Analytical reagent  
**Restricted Uses:** For research use only. Not available for diagnostic procedures.  
**Mixture supplied to that use in form of:** A mixture  
**Product Category by type of chemical:** Analytical reagent

### 1.3 Details of the supplier of the Safety data Sheet

**Address:** Edinburgh Genetics Limited  
 Pentlands Science Park,  
 Penicuik, United Kingdom  
 EH26 0PZ  
**Telephone Number:** +44 1312616686  
**Email Address:** [sales@eggenetics.com](mailto:sales@eggenetics.com)

### 1.4 Emergency Telephone: +44 1312616686

## SECTION 2: Hazards Identification

### 2.1 Classification of the mixture

#### 2.1.1 Emergency Overview

Hyb Human Block	Colourless, Liquid. No known significant
RNase Block	Colourless, Liquid. No known significant
Hyb Buffer	Colourless, Liquid. H316-Causes mild skin irritation. H402-Harmful to aquatic life.

#### 2.1.2 Classification according to Regulation (EC) No 1272/2008 (including amendments):

Hyb Human Block	Not classified
RNase Block	Not classified
Hyb Buffer	Skin corrosion/irritation-Category 3 Hazardous to aquatic environment, short-term (Acute)-Category 3

#### 2.1.3 GHS Hazard Category

Hyb Human Block	Not classified
RNase Block	Not classified
Hyb Buffer	H316-Causes mild skin irritation. —Skin corrosion/irritation-Category 3 H402-Harmful to aquatic life. —Hazardous to aquatic environment, short-term (Acute)-Category 3

### 2.2 Label elements:

#### Hazard Pictogram:

Hyb Human Block	None
RNase Block	None
Hyb Buffer	None

#### Signal word:

Hyb Human Block	No signal word
RNase Block	No signal word
Hyb Buffer	Warning

<b>Hazard statements:</b>	Hyb Human Block	No known significant effects or critical
	RNase Block	No known significant effects or critical
	Hyb Buffer	H316-Causes mild skin irritation. H402-Harmful to aquatic life.

<b>Prevention:</b>	Hyb Human Block	N/A
	RNase Block	N/A
	Hyb Buffer	P273-Avoid release to the environment.

<b>Disposal:</b>	Hyb Human Block	N/A
	RNase Block	
	Hyb Buffer	P501-Dispose of contents/containers according to local/regional/national/international regulations.

<b>Storage:</b>	Hyb Human Block	N/A
	RNase Block	N/A
	Hyb Buffer	N/A

2.3 **Other Hazards:** N/A

### SECTION 3: Composition / Information on Ingredients

3.1 <b>Substances</b>	Hyb Human Block	Mixture
	RNase Block	Mixture
	Hyb Buffer	Mixture

3.2 **Composition**

Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008	Proportion	Identifiers	EC Number
<b>Hyb Human Block</b>			
No ingredients harmful to health or environment.			
<b>RNase Block</b>			
No ingredients harmful to health or environment.			
<b>Hyb Buffer</b>			
Ethylene Diamine Tetraacetic Acid	10 to 25	EC: 200-449-4 CAS: 60-00-4	Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Chronic 3, H412 STOT SE 3, H335
Dodecyl Sodium Sulfonate	<2.5	EC: 219-200-6 CAS: 2386-53-0	No hazards have been classified.

### SECTION 4: First-Aid Measures

4.1 **Description of First Aid Measures**

**Inhalation:**

Hyb Human Block                      Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe.

RNase Block                              Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe.

Hyb Buffer                                In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Ingestion:**

Hyb Human Block                      Wash mouth with water. Move exposed person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep the head down to avoid vomit entering the lungs. Get medical attention if adverse health effects persist or are severe.

RNase Block

Hyb Buffer Wash out mouth with water. Move exposed person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep the head down to avoid vomit entering the lungs. Get medical attention if adverse health effects persist or are severe.

**Skin Contact:**

Hyb Human Block Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if adverse health effects persist or are severe.

RNase Block

Hyb Buffer Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye Contact:**

Hyb Human Block Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

RNase Block

Hyb Buffer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**First Aider Protection:** None specific

**4.2 Most important symptoms and effects, both acute and delayed**

**Potential acute health effects:**

Hyb Human Block No known significant effects or critical hazards.  
 RNase Block No known significant effects or critical hazards.  
 Hyb Buffer Causes mild skin irritation. Causes eye irritation.

**Over-exposure signs/symptoms:**

Hyb Human Block No specific data.  
 RNase Block No specific data.  
 Hyb Buffer Skin irritation and redness. Eye pain or irritation, tears and redness.

**4.3 Indication of immediate medical attention and special treatment needed**

**Specific Treatments**

Hyb Human Block None Specific  
 RNase Block None Specific  
 Hyb Buffer None Specific

**Notes to Physician**

Hyb Human Block Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 RNase Block Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 Hyb Buffer Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**No action shall be taken involving any personal risk or without suitable training.**

**SECTION 5: Fire-Fighting Measures**

**5.1 Extinguishing media (small and large fires)**

**Small Fire:** Use an extinguishing agent suitable for the surrounding fire.

**Large Fire:** Use an extinguishing agent suitable for the surrounding fire.

**Avoid:** None

**5.2.1 Specific Hazards:** In a fire or if heated, a pressure increase will occur and the container may burst

**5.2.2 Protective equipment and advice for fire fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency measures

#### 6.1.1 For non-emergency personnel:

Hyb Human Block	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist.
RNase Block	Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Hyb Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

#### 6.1.2 For emergency responders:

Hyb Human Block	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
RNase Block	
Hyb Buffer	

### 6.2 Environmental Precautions:

Hyb Human Block	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
RNase Block	
Hyb Buffer	

### 6.3 Methods and materials for containment and cleaning up:

Hyb Human Block	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Dispose of via a licensed waste disposal contractor.
RNase Block	
Hyb Buffer	

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Hyb Human Block	Put on appropriate personal protective equipment (see Section 8).
RNase Block	
Hyb Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### 7.2 Conditions for safe storage, including any incompatibilities:

Hyb Human Block	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
RNase Block	
Hyb Buffer	

### 7.3 Specific end use(s) recommendations:

Hyb Human Block	Industrial applications, Professional applications.
RNase Block	
Hyb Buffer	

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

Product/ingredient name	Component in the Kit	Exposure limit values
Hyb Human Block	N/A	N/A
RNase Block	N/A	N/A
Hyb Buffer	N/A	N/A

### 8.2 Exposure controls

Appropriate engineering controls:	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Respiratory protection:	Wear medical protective mask.

<b>Hand protection:</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.
<b>Eye protection:</b>	If contact is possible, the following protection should be worn: chemical splash goggles and/or face shield.
<b>Skin protection:</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Generally, it is recommended to wear a white coat, disposable head cover and disposable shoe cover for protection.
<b>Environmental exposure controls:</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

#### Physical State:

Hyb Human Block	Liquid
RNase Block	Liquid
Hyb Buffer	Liquid

### 9.2 Colour:

Hyb Human Block	Colourless
RNase Block	Colourless
Hyb Buffer	Slightly yellow.

### 9.3 Odour:

Hyb Human Block	Odourless
RNase Block	Odourless
Hyb Buffer	Irritating odour

### 9.4 Odour threshold:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

### 9.5 pH:

Hyb Human Block	7.5
RNase Block	N/A
Hyb Buffer	7.9 +/- 0.3

### 9.6 Melting/Freezing point:

Hyb Human Block	0°C
RNase Block	N/A
Hyb Buffer	N/A

### 9.7 Initial boiling point and boiling range:

Hyb Human Block	100°C
RNase Block	N/A
Hyb Buffer	N/A

### 9.8 Flash point:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

### 9.9 Evaporation rate:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

### 9.1 Flammability:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

### 9.11 Upper/lower flammability or explosive limits:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

9.12 **Vapour pressure:**

Hyb Human Block	The main component of the reagent is water. At 20 °C, the steam pressure of water is 3.2 kPa. At 50 °C, the vapor pressure of water is 12.3 kPa.
RNase Block	
Hyb Buffer	N/A

9.13 **Vapour density**

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

9.14 **Relative vapour density (air=1):**

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

9.15 **Solubility:**

Hyb Human Block	Soluble in water
RNase Block	Soluble in water
Hyb Buffer	Soluble in water

9.16 **Partition coefficient (n-octanol/water):**

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

9.17 **Auto-ignition temperature:**

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

9.18 **Decomposition temperature:**

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

9.19 **Viscosity:**

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

## SECTION 10: Stability and Reactivity

10.1 **Reactivity:**

Hyb Human Block	Stable
RNase Block	Stable
Hyb Buffer	Stable

10.2 **Chemical stability:**

Hyb Human Block	Stable
RNase Block	Stable
Hyb Buffer	Stable

10.3 **Possibility of hazardous reactions:**

Hyb Human Block	Under normal conditions of storage and use, hazardous reactions will not occur.
RNase Block	
Hyb Buffer	

10.4 **Conditions to Avoid:**

Hyb Human Block	No specific data
RNase Block	
Hyb Buffer	

10.5 **Incompatible materials:**

Hyb Human Block	No specific data
RNase Block	
Hyb Buffer	

10.6 **Hazardous decomposition products:**

Hyb Human Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
RNase Block	
Hyb Buffer	

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
<b>Hyb Human Block</b>				
No ingredients harmful to health or environment.				
<b>RNase Block</b>				
No ingredients harmful to health or environment.				
<b>Hyb Buffer</b>				
Ethylene Diamine Tetraacetic Acid	LD50 Oral	Rat	2g/kg	/
Dodecyl Sodium Sulfonate	LD50 Oral	Rat	1288 mg/kg	/

### 11.2

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure
<b>Hyb Human Block</b>			
No ingredients harmful to health or environment.			
<b>RNase Block</b>			
No ingredients harmful to health or environment.			
<b>Hyb Buffer</b>			
Ethylene Diamine Tetraacetic Acid	N/A	N/A	N/A
Dodecyl Sodium Sulfonate	N/A	N/A	N/A

### 11.3

#### Senitiser

Hyb Human Block	N/A
RNase Block	
Hyb Buffer	

### 11.4

#### Mutagenicity:

Hyb Human Block	N/A
RNase Block	
Hyb Buffer	

### 11.5

#### Carcinogenicity:

Hyb Human Block	N/A
RNase Block	
Hyb Buffer	

### 11.6

#### Reproductive toxicity:

Hyb Human Block	N/A
RNase Block	
Hyb Buffer	

### 11.7

#### Specific target organ toxicity (single exposure):

Hyb Human Block	N/A
RNase Block	
Hyb Buffer	

### 11.8

#### Specific target organ toxicity (repeated exposure):

Hyb Human Block	N/A
RNase Block	
Hyb Buffer	

### 11.9

#### Aspiration hazard:

Hyb Human Block	N/A
RNase Block	
Hyb Buffer	

## SECTION 12: Ecological Information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>Hyb Human Block</b>			
No ingredients harmful to health or environment.			
<b>RNase Block</b>			
No ingredients harmful to health or environment.			
<b>Hyb Buffer</b>			




Ethylene Diamine Tetraacetic Acid	Acute LC50 320 mg/L Fresh water	Fish	96h
Dodecyl Sodium Sulfonate	N/A	N/A	N/A

12.2	<b>Persistence and degradability:</b>	N/A
12.3	<b>Bioaccumulative potential:</b>	N/A
12.4	<b>Mobility in soil:</b>	N/A
12.5	<b>Results of PBT and vPvB assessment:</b>	N/A
12.6	<b>Other adverse effects:</b>	N/A

### SECTION 13: Disposal Considerations

13.1	<b>Waste treatment methods:</b>	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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### SECTION 14: Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Transport hazard symbol	Environmental hazards	Packing group
<b>ADR/RID</b>	UN3316	CHEMICAL KIT	9		No.	II
<b>IATA</b>	UN3316	Chemical kit	9		No.	II
<b>IMDG</b>	UN3316	CHEMICAL KIT	9		No.	II

14.1	<b>Precautions for transportation :</b>	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
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### SECTION 15: Regulatory Information

Nation	Regulation	Information
International	Chemical Weapon Convention List Schedules I, II & III Chemicals	Not listed.
International	Montreal Protocol (Annexes A, B, C, E)	Not listed.
International	Stockholm Convention on Persistent Organic Pollutants	Not listed.
International	Rotterdam Convention on Prior Inform Consent (PIC)	Not listed.
International	UNECE Aarhus Protocol on POPs and Heavy Metals	Not listed.
Europe	Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)	All components are not listed in the list.
United States	Toxic Substances Control Act (TSCA)	Not listed.
United States	TSCA Chemical Substance Inventory	All components are not listed in the list.
Japan	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	All components are not listed in the list.
Turkey	Regulation on the Export and Import of Certain Hazardous Chemicals	All components are not listed in the list.
Turkey	Regulation of Registration, Evaluation, Authorization, and Restriction of Chemicals (KKDIK)	All components are not listed in the list.
China	Inventory of the Existing Chemical Substances in China (IECSC)	All components are listed or exempted.
China	Provisions on Environmental Administration of New Chemical Substances	Not listed.
China	Regulations on Safe Management of Hazardous Chemicals in China	Not listed.
China	Catalog of Hazardous Chemicals	All components are not listed in the list.
China	Catalog of Goods Prohibited from Import	All components are not listed in the list.
China	Catalog of Goods Prohibited from Export	All components are not listed in the list.



China	China Inventory of Severely Restricted Toxic Chemicals	All components are not listed in the list.
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**SECTION 16: Other Information**

**The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Edinburgh Genetics Limited and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. ©2023 Edinburgh Genetics Ltd. All rights reserved.**