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|---|--|-------------------------|-------------|
|  | DOCUMENT NUMBER: DOC-00229   | REVISION: 4             | PAGE 1 OF 6 |
|   | DEPARTMENT: 122 EH&S   | EFFECTIVE DATE: 6/30/21 |             |
|   | TITLE: Safety Data Sheet (SDS): PCR Primer Mix for B-Cell Assay, Adaptive P/N M001 |                         |             |

## Safety Data Sheet

### Section 1: Identification

#### 1.1 Product Identifier

Product Name: PCR Primer Mix for B-Cell Assay  
Product Code: M001  
Synonyms: None  
CAS#: N/A

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

Recommended Use: For use as part of the clonoSEQ Assay; primers are used to identify and quantify rearranged B-cell receptor gene sequences in DNA extracted from human blood and bone marrow.

#### 1.3 Details of the supplier of the safety data sheet

Company Information: Adaptive Biotechnologies  
1165 Eastlake Avenue East  
Seattle, WA 98109  
USA  
Telephone: 888-552-8988  
Email: info@adaptivebiotech.com

#### 1.4 Emergency Telephone Number

Emergency Telephone number: ChemTrec (North America): 1-800-424-9300  
ChemTrec (International): +1-703-527-3887

### Section 2: Hazards Identification

#### 2.1 GHS Classification:

Signal Word: None  
Pictogram: None  
Health Hazards: None  
Physical Hazards: None  
Hazard Statements: None  
Precautionary Statements: None

Despite the classification of components in this mixture as nonhazardous, it is strongly recommended that prudent laboratory practices be employed: use of PPE including nitrile gloves, eye protection and lab coats while handling any laboratory reagent is required. Adaptive Biotechnology will not be held liable for any injuries resulting from the handling or from contact with the product listed on this SDS.

### Section 3: Composition/Information on Ingredients

| CAS # | Hazardous Components/Chemical Name                    | Concentration | GHS Classification |
|-------|---|---------------|--------------------|
| N/A   | Synthetic single-stranded oligonucleotides            |               | Nonhazardous       |
| N/A   | Synthetic double-stranded linear nucleic acids        |               | Nonhazardous       |
| N/A   | Yeast tRNA, purified from brewer's yeast              |               | Nonhazardous       |
| N/A   | DNA Suspension Buffer (10mM Tris, 0.1mM EDTA, pH 8.0) |               | Nonhazardous       |

### Section 4: First Aid Measures

#### 4.1 Description of first aid measures

**Eye Contact:** Rinse immediately using an eye wash station for 10 to 15 minutes, forcibly opening eyes and removing contacts if necessary. Eyes should be examined by a physician.

**Skin Contact:** Remove contaminated clothes immediately, wash affected area with soap and water. Look for signs of irritation, if irritation is present, seek medical attention.

**Inhalation:** Remove the victim to fresh air and keep him/her calm. In the event of symptoms seek medical treatment.

## Section 5: Firefighting Measures

**5.1 Fire and Explosion Hazard:** None known to exist.

**5.2 Fire Extinguishing Media:** Dry chemical foam, carbon dioxide or water.

## Section 6: Accidental Release

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

Ensure adequate ventilation, wear appropriate PPE such as safety glasses, lab coat with cuffs, gloves and closed toed shoes. If spilled, wear appropriate PPE during clean up and use inert absorbent material for cleaning; avoid walking through the spill. Place spillage in appropriate container for disposal.

### 6.2 Environmental precautions

Take steps to avoid release to the environment, especially drains and sinks.

## Section 7: Handling and Storage

### 7.1 Precautions for Safe Handling

Technical measures                      Use prudent laboratory practices for handling and storage of chemicals and reagents, including use of PPE and hand washing prior to exiting the laboratory.

### 7.2 Conditions for safe storage including any incompatibilities

Storage conditions                      - 25°C to - 15°C  
Incompatible materials                      Information not available  
Note to Physician:                      There is no antidote, treat symptomatically and supportively.

## Section 8: Exposure controls/personal protection

### 8.1 Exposure parameters

Exposure Limits                      OSHA, ACGIH or NIOSH has not established occupational exposure limits for the components in this mixture.

Appropriate Engineering Controls                      General industrial hygiene practices.

**8.2 Exposure controls**

|                        |  |
|------------------------|--|
| Respiratory protection | None required under normal conditions of use.  |
| Skin protection        | Long sleeved lab coat and long pants are required.   |
| Eye protection         | Use equipment for eye protection that has been tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). |
| Hand protection        | Protective gloves are required, nitrile is recommended.  |

**Section 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

|  |                   |
|--|-------------------|
| Form   | Liquid            |
| Odor   | None              |
| Odor Threshold                               | No data available |
| Boiling Point/boiling range                  | No data available |
| Melting Point/melting range                  | No data available |
| Flash point                                  | No data available |
| Evaporation rate                             | No data available |
| Flammability (solid, gas)                    | No data available |
| Oxidizing properties                         | No data available |
| Water solubility                             | No data available |
| Upper/lower flammability or explosion limits | No data available |
| Partition coefficient                        | No data available |
| Vapor pressure/density                       | No data available |
| pH value                                     | No data available |

**Section 10: Stability and Reactivity**

|   |   |
|---|---|
| 10.1 Reactivity                           | No specific test data related to reactivity is available for this product or its ingredients. |
| 10.2 Chemical Stability                   | Stable under recommended storage conditions.  |
| 10.3 Possibility of Hazardous Reactions   | Under normal conditions of storage and use, hazardous reactions should not occur.             |
| 10.4 Conditions to Avoid                  | No specific data  |
| 10.5 Incompatibility - Materials to Avoid | No specific data  |
| 10.6 Hazardous Decomposition Products     | No specific data  |

**Section 11: Toxicological Information**

|                                       |  |
|---------------------------------------|--|
| <b>11.1 Principle Routes of Entry</b> | Ingestion. No specific data<br>Skin contact. No specific data<br>Eye irritation. No specific data<br>Respiratory irritation. No specific data<br>Sensitization. No specific data |
| <b>11.2 Acute toxicity</b>            | No toxicology information is available   |
| Carcinogenic effects                  | No information available   |
| Mutagenic effects                     | No information available   |
| Reproductive toxicity                 | No information available   |
| Sensitization                         | No information available   |

**Section 12: Ecological information**

|  |                          |
|--|--------------------------|
| <b>12.1 Toxicity</b>                       |                          |
| Ecotoxicity                                | No information available |
| <b>12.2 Persistence and degradability</b>  | No information available |
| <b>12.3 Bioaccumulative potential</b>      | No information available |
| <b>12.4 Mobility in soil</b>               | No information available |
| <b>12.5 Results of PBT/vPvB assessment</b> | No information available |
| <b>12.6 Other adverse effects</b>          | No information available |

**Section 13: Disposal considerations**

Dispose of contents/containers in accordance with federal, state and local regulations

**Section 14: Transport Information**

This material is not considered a dangerous material per DOT guidelines or a dangerous good per IATA guidelines regarding classification.

**Section 15: Regulatory Information**

The toxicological properties of this material have not been investigated. The material is for research and development purposes only.

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|---|--------------------|--------------------|
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| <b>TITLE: Safety Data Sheet (SDS): PCR Primer Mix for B-Cell Assay, Adaptive P/N M001</b> |                    |                    |

## **Section 16: Other Information**

For use as part of the clonoSEQ assay.

The above information contained in this document is believed to be accurate but is not warranted to be so and should be used only as a guide. The information shall not be taken as being all inclusive; all materials and mixtures may present unknown hazards and should be used with caution. Since Adaptive Biotechnologies cannot control the actual methods, volumes or conditions of use, Adaptive Biotechnologies shall not be held liable for any damage or injuries resulting from the handling or contact with this product.

Warranty: The above information is believed to be correct but does not purport to be all inclusive; the information should be used as a guide.

Prepared by: Tina S. Bailey, MS, CHMM  
Prepared on: June 1, 2021

SDS version Four

End of Safety Data Sheet