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Rev. 02

SDS PN: 102-300-600

1. PRODUCT AND COMPANY IDENTIFICATION				
1.1 Product Identifier				
Product Name	Sequel® II binding kit 3.1			
Product Number(s)	102-194-200			
Other means of identification	This product is a kit box containing 18 reagent tubes.			
	Subcomponent Name	Part #	#	Cap Color
	Sequel® II annealing buffer	102-326-100	1	light blue
	Sequel® II primer 3.1	102-326-300	1	light green
	Sequel® II polymerase dilution buffer	102-326-600	3	yellow
	Sequel® II DNA polymerase 2.1	102-281-800	1	purple
	Sequel® II ABC buffer	102-326-600	3	blue
	Sequel® II DNA internal control complex 3.1	102-249-500	1	red
	Sequel® II loading buffer 3.1	102-284-300	8	green
1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against				
Identified Use	For binding polymerase to SMRTbell® libraries in preparation for sequencing.			
Restrictions on Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.			
1.3 Details of the Supplier of the Substance or Mixture				
Supplier Name and Address	Pacific Biosciences of California, Inc. 1305 O'Brien Drive Menlo Park, CA 94025 U.S.A www.pacificbiosciences.com			
Supplier phone	+1 650-521-8000			
1.4 Emergency Telephone Number				
Within USA & Canada	Call CHEMTREC 1-800-424-9300 (reference CCN# 656805)			
Outside USA and Canada	techsupport@pacb.com			
2. HAZARD(S) IDENTIFICATION				
2.1 Classification of the substance or mixture				
The kit as a whole is not a hazardous substance or mixture. ¹ Subcomponents are classified as follows.				

¹ Classification in accordance with 29CFR1910 (OSHA HCS) and UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Subcomponent Name	Part #	Classification
Sequel® II annealing buffer	102-326-100	Not a hazardous substance or mixture.
Sequel® II primer 3.1	102-326-300	Not a hazardous substance or mixture.
Sequel® II polymerase dilution buffer	102-326-600	Not a hazardous substance or mixture.
Sequel® II DNA polymerase 2.1	102-281-800	Not a hazardous substance or mixture.
Sequel® II ABC buffer	102-326-600	Not a hazardous substance or mixture.
Sequel® II DNA internal control complex 3.1	102-249-500	Not a hazardous substance or mixture.
Sequel® II loading buffer 3.1	102-284-300	Not a hazardous substance or mixture.
2.2 GHS Label Elements and precautionary statements		
Not a hazardous substance or mixture.		
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS		
None		
3. COMPOSITION / INFORMATION ON INGREDIENTS		
3.1 Substances		
Common Name and Synonyms	Sequel® II binding kit 3.1	
CAS Number	None	
Other unique identifiers	None	
3.2 Hazardous components		
No ingredients are hazardous according to OSHA or GHS criteria		
4. FIRST AID MEASURES		
4.1 Description of First Aid Measures		
General advice	Consult a physician. Show this safety data sheet to the physician.	
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.	
In case of skin contact	Wash off with water.	
In case of eye contact	Flush eyes with water.	
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.	
4.2 Most important symptoms/effects, both acute and delayed		
No data available. Refer to section 2.2 and section 11 for additional information.		
4.2 Indication of any immediate medical attention and special treatment needed		
No data available		
5. FIRE-FIGHTING MEASURES		
5.1 Suitable Extinguishing Media		
Dry chemical, carbon dioxide, foam or water.		
5.2 Special hazards arising from the substance or mixture		
Combustion will produce oxides of carbon, nitrogen and sulfur.		
5.3 Advice for firefighters (special protective equipment or precautions)		
Wear self-contained breathing apparatus for fire-fighting as necessary.		
6. ACCIDENTAL RELEASE MEASURES		
6.1 Personal precautions, protective equipment and emergency procedures		
Avoid breathing vapors, mists or gas. For personal protection see section 8.0.		
6.2 Environmental precautions		
Avoid release to the environment. Report spills and releases as required to appropriate authorities.		
6.3 Methods and materials for cleanup		
Wear personal protective equipment, wipe up with paper towel (or similar), and contain in closed containers.		

6.4	Reference to other sections	
		For disposal see section 13.
7.	HANDLING AND STORAGE	
7.1	Precautions for safe handling	
		Utilize standard good lab practices. Use in a well-ventilated area and wear standard PPE.
7.2	Conditions for safe storage, including any incompatibilities	
		Keep containers tightly closed at the recommended storage temperature.
8.	EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1	Control Parameters	
		Contains no substances with occupational exposure limit values.
8.2	Exposure Controls	
	Appropriate engineering controls:	General industrial hygiene practice. No special ventilation required for normal use.
	Personal Protective Equipment (PPE):	
	Eye/Face Protection	Safety glasses
	Skin and Body Protection	Latex or nitrile gloves; lab coat /apron
	Respiratory Protection	None required
9.	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
	Appearance	Each reagent tube contains clear colorless liquid.
	Odor	The Sequel® II DNA polymerase 2.1 and Sequel® II DNA internal control complex 3.1 may have a slight sulfur odor.
	Odor Threshold	No data available
	pH	7.0-8.5
	Melting point/freezing point	No data available
	Initial boiling point and boiling range	No data available
	Flash point	No data available
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limit	No data available
	Vapor pressure	No data available
	Relative density	No data available
	Solubility(ies)	No data available
	Partition coefficient: n-octonal/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity	No data available
10.	STABILITY AND REACTIVITY	
	Reactivity	This product is not reactive under normal conditions of storage and use.
	Chemical Stability	Stable under recommended storage conditions.
	Possibility of Hazardous Reactions	No data available
	Conditions to Avoid	No data available
	Incompatible Materials	Avoid contact with strong acids, bases and oxidizers.
	Hazardous Decomposition Products	No data available. In the event of fire see section 5.

11. TOXICOLOGICAL INFORMATION	
11.1 Information on likely routes of exposure	
The most likely route of exposure is via skin or eye contact. Exposure via inhalation or ingestion is less likely.	
11.2 Symptoms related to the physical, chemical and toxicological characteristics	
No data available	
11.3 Delayed and immediate effects and also chronic effects from short and long-term exposure	
Eyes	No data available
Skin	No data available
Inhalation	No data available
Ingestion	No data available
Chronic Effects	No data available
Aggravated Medical Conditions	No data available
Interactions with other Chemicals	No data available
11.4 Numerical measures of toxicity	
Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity	No data available
11.5 Carcinogenicity	
No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.	
12. ECOLOGICAL INFORMATION	
Ecotoxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB Assessment	None Required
Other adverse effects	No data available
13. DISPOSAL CONSIDERATIONS	
Dispose all waste in accordance with local, regional and national regulations.	
Product	See above
Contaminated Packaging	See above
US EPA Waste Number	No EPA ID number. Not regulated as a US federal hazardous waste. Not regulated under Title 22 as a California hazardous waste.
14. TRANSPORT INFORMATION	
Transportation of this product is not regulated under ICAO, IMDG or US DOT.	
15. REGULATORY INFORMATION	
15.1 USA Federal Regulations	
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.
SARA 311/312	Acute health hazard, Chronic health hazard.
TSCA	Research use only

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15.2 USA State Regulations	
CA Prop 65	This kit does not contain any chemicals known to the State of California to cause cancer or adverse reproductive health effects

16. OTHER INFORMATION

Prepared By	Pacific Biosciences of California, Inc. Environment, Health and Safety 1305 O'Brien Drive Menlo Park, CA 94025 U.S.A. safety@pacb.com
Further Information	<p>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. It is not a warranty or quality specification. This information relates only to the specific material designated and may not be valid for use in combination with any other material or in any other process.</p> <p>For Research Use Only. Not for use in diagnostic procedures. © Copyright 2022, Pacific Biosciences of California, Inc. All right reserved. Information in this document is subject to change without notice. Pacific Biosciences assumes no responsibility for any errors or omissions in this document. Certain notices, terms, conditions and/or use restrictions may pertain to your use of Pacific Biosciences products and/or third-party products. Please refer to the applicable Pacific Bioscience Terms and Conditions of Sale and to the applicable license terms at http://www.pacb.com/legal-and-trademarks/product-license-and-use-restrictions/.</p> <p>Pacific Biosciences, the Pacific Biosciences logo, PacBio, the PacBio logo, Circulomics, Omniome, SMRT, SMRTbell, Iso-Seq, Sequel, Nanobind, and SBB are trademarks of PacBio. All other trademarks are the sole property of their respective owners.</p>