

SAFETY DATA SHEET

Issuing Date: 07Mar19 Revision Date: 24Sep19 Rev. 03 SDS PN: 101-752-600

1.	PRODUCT AND COMPANY IDENTIFICATION							
1.1	Product Identifier							
	Product Name		SMRTbell® Enzyme Clean up Kit					
	Product Number(s)			101-746-400				
	Other means of identification			This product is a kit box containing 5 reagent tubes				
				Subcomponent Name	Part #	#	Cap Color	
				10x Clean up Buffer	101-741-600	1	White	
				Enzyme A	101-741-100	1	Yellow	
				Enzyme B	101-741-700	1	Blue	
				Enzyme C	101-741-400	1	Red	
				Enzyme D	101-741-500	1	Orange	
1.2	Relevant Identified Uses of the Substance or Mixture and Uses Advised Against							
	Identified Use		For use with the Pacific Biosciences® PacBio® Sequel® and Sequel® II Systems					
	Restriction	s on Use	_	RESEARCH USE ONLY. NOT EDURES.	FOR USE IN E	DIAGNO	OSTIC	
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. Subcomponents are classified as follows.							
	Subcomponent Name	Part #		Classification				
	10x Clean up Buffer	101-741-600		Not a hazardous substance or mixture				
	Enzyme A	101-741-100		Not a hazardous substance or mixture				
	Enzyme B	101-741-700		Not a hazardous substance or mixture				
	Enzyme C	101-741-400		Not a hazardous substance or mixture				
	Enzyme D 101-741-		-500	Not a hazardous substance or n	nixture			
2.2	GHS Label Elements and precautionary statements							
	Not a hazardous substance or mixture.							

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

Page 1 of 5

2.3	Hazards not otherwise classified (HNOC) or not covered by GHS					
2.3	The 10x Clean Up Buffer, Enzyme B, Enzyme C and Enzyme D contain bovine derived material. Country of					
	origin USA. Certificate of origin available upon request.					
3.	COMPOSITION / INFORMATION ON INGREDIENTS					
3.1	Substances					
	Common Name and Synonyms SMRTbell® Enzyme Clean up Kit					
	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					
5.	No data available 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					
5.3	Combustion will produce oxides of carbon and nitrogen.					
3.3	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					
6.3	Avoid release to the environment. Report spills and releases as required to appropriate authorities. Methods and materials for cleanup					
0.3	Wear personal protective equipment, wipe up with paper towel (or similar), and contain in closed containers.					
6.4	Reference to other sections					
V. T	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					
U. 1	Contains no substances with occupational exposure limit values.					
	Commented the Caracteristics of the Cookpanion of Pooling Minit Valued.					

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 PI					
9.1	Information on basic physical and chemical properties					
	Appearance	Each reagent tube contains clear colorless liquid.				
	Odor	Mild odor				
	Odor Threshold	No data available				
	рН	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				
Uppe	er/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 INFORMATI	ON				
11.1	Information on likely routes of ex	posure				
	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	l, chemical and toxicological characteristics				
	No data available					
11.3	Delayed and immediate effects ar	nd 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		
		us eye damage/irritation	No data available		
	Respira	tory or skin sensitization	No data available		
		Germ cell mutagenicity	No data available		
		Reproductive toxicity	No data available		
		cific target organ toxicity	No data available		
11.5	Carcinoge				
	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.				
12.	ECOLOGICAL INFORMATION				
		Ecotoxicity	No data available		
	Persis	stence and Degradability	No data available		
		ioaccumulative Potential	No data available		
	Mobility in soil		No data available		
	Results of PB	Γ and vPvB Assessment	None Required		
		Other adverse effects	No data available		
13.					
	Dispose ai		h 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.	TRANSP	ORT INFORMATION			
	Transportation of this product is not regulated under ICAO, IMDG or US DOT.				
15.	REGULA	TORY INFORMATION			
15.1	USA Fede	ral Regulations			
	SARA 302		terial are subject to the reporting requirements of SARA Title III, Section 302		
	SARA 302 No criefficals 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				
SA	RA 311/312	No SARA hazards	•		
	TSCA	Research use only			
15.2		Regulations			
	CA Prop 65	This kit does not contain reproductive health effective	n any chemicals known to the State of California to cause cancer or adverse cts		
16. C	THER INFO	RMATION			
	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 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.				

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