

## SAFETY DATA SHEET

Issuing Date: 24Oct18

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**Rev.** 01

SDS PN: 101-692-200

1.	PRODUCT AND COMPANY IDE	NTIFICATION			
1.1	Product Identifier				
	Product Name	SMRTbell <sup>®</sup> Express Template Prep Ki	t 2.0		
	Product Number(s)	100-938-900			
	Other means of identification	This product is a kit box containing 17	reagent tubes.		
		Subcomponent Name	Part #	# tubes	Cap Color
		DNA Prep Buffer	101-653-300	1	Gold
		NAD	101-653-400	1	Red
		Enzyme Dilution Buffer	101-653-500	1	Purple
		Nuclease-free Water	101-654-400	1	White
		DNA Prep Additive	101-653-600	1	Light Purple
		DNA Prep Enzyme	101-653-700	1	Blue
		DNA Damage Repair Mix v2	101-653-800	1	Green
		End Prep Mix	101-653-900	1	Orange
		Overhang Adapter v3	101-654-000	1	Light Green
		Ligation Mix	101-654-100	1	Yellow
		Ligation Additive	101-654-200	1	Light Blue
		Ligation Enhancer	101-654-300	1	Red
		Sequencing Primer v4	101-654-600	1	Light Blue
		10X Primer Buffer v2	001-560-849	1	Blue
		1X Elution Buffer	100-159-800	3	White
1.2	Relevant Identified Uses of the Sub	ostance or Mixture and Uses Advised	Against		
	Identified Use	For use with the Pacific Biosciences P	acBio <sup>®</sup> Sequel <sup>®</sup>	<sup>୭</sup> system.	
	Restrictions on Use	FOR RESEARCH USE ONLY. NOT F PROCEDURES.	OR USE IN DIA	AGNOSTI	С
1.3	Details of the Supplier of the Subst	ance or Mixture			
	Supplier Name and Address	Pacific Biosciences of CA, 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	1			
	Within USA & Canada	Call CHEMTREC 1-800-424-9300 (ref	erence CCN# 6	56805)	
	Outside USA and Canada	techsupport@pacb.com			
2.	HAZARD(S) IDENTIFICATION				
2.1	Classification of the substance or	mixture			
	The kit is not a hazardous substance	or mixture.1 Subcomponents are classi	fied as follows.		

	Subseme	nont Nomo	Part #	Classification
	Subcompor			Not a hazardous substance or mixture.
	DINA I	Prep Buffer	101-653-300	
		NAD	101-653-400	Not a hazardous substance or mixture.
	Enzyme Dilu		101-653-500	Not a hazardous substance or mixture.
		free Water	101-654-400	Not a hazardous substance or mixture.
		ep Additive	101-653-600	Not a hazardous substance or mixture.
	DNA Pre	ep Enzyme	101-653-700	Not a hazardous substance or mixture.
	DNA Damage Re	pair Mix v2	101-653-800	Not a hazardous substance or mixture.
	En	d Prep Mix	101-653-900	Not a hazardous substance or mixture.
	Overhang	Adapter v3	101-654-000	Not a hazardous substance or mixture.
	L	igation Mix	101-654-100	Not a hazardous substance or mixture.
	Ligati	on Additive	101-654-200	Not a hazardous substance or mixture.
	Ligatior	n Enhancer	101-654-300	Not a hazardous substance or mixture.
	Sequencing	g Primer v4	101-654-600	Not a hazardous substance or mixture.
	10X Prime	er Buffer v2	001-560-849	Not a hazardous substance or mixture.
	1X Elu	ution Buffer	100-159-800	Not a hazardous substance or mixture.
2.2	GHS Label Elements a	nd precautio	onary statemen	ts
	Not a hazardous substa	•	•	
2.3	Hazards not otherwise			overed by GHS
2.0				contains BSA. Country of origin USA. The BSA in this
				te of Suitability" from the European Directorate for the
				has been granted a USDA Certificate for Export of Bovine
	Blood Plasma/Serum for			
3.	COMPOSITION / INF	ORMATION	N ON INGRED	IENTS
3.1	Substances		1	
	Common Name and	d Synonyms	SMRTbell <sup>®</sup> Ex	press Template Prep Kit 2.0
	C	AS Number	None	
	Other uniqu	le identifiers	None	
3.2	Hazardous component	ts		
	No ingredients are haza	rdous accord	ling to OSHA or	GHS criteria.
4.	FIRST AID MEASUR	ES		
4.1	Description of First Aid	d Measures		
	General advice	Consult a pl	hysician. Show	this safety data sheet to the physician.
	If inhaled	If breathed i	in, move person	into fresh air. If not breathing, give artificial respiration
	In case of skin contact	Wash off wi		
	In case of eye contact	Flush eyes		
	If swallowed			th to an unconscious person. Rinse mouth with water.
4.2	Most important sympto			
				1 for additional information.
4.2				d special treatment needed
7.6	No data available			
E				
5.	FIRE-FIGHTING MEA			
5.1	Suitable Extinguishing		r water	
	Dry chemical, carbon die			
5.2	Special hazards arising			
	Combustion will produce		and a second	and sulfur
5.3	Advice for firefighters Wear self-contained bre	(special pro	tective equipm	ent or precautions)

6.	ACCIDENTAL RELEASE ME	ASURES
6.1	Personal precautions, protective	e equipment and emergency procedures
	Avoid breathing vapors, mists or g	as. 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 clear	nup
	Wear personal protective equipme	ent, 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	s. Use in a well-ventilated area and wear standard PPE.
7.2	Conditions for safe storage, inc	luding any incompatibilities
	Keep containers tightly closed at t	he recommended storage temperature.
8.	EXPOSURE CONTROLS / PE	RSONAL PROTECTION
8.1	Control Parameters	
	Contains no substances with occu	pational exposure limit values.
8.2	Exposure Controls	
	Appropriate engineering contro	ls:
	General industrial hygiene practice	e. 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 a	nd chemical properties
	Appearance	Each reagent tube contains clear colorless liquid.
	Odor	None
	Odor Threshold	Not applicable
	рН	7.0-8.0
	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 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 oxidizers
	Hazardous Decomposition Products	No data available. In the event of fire see section 5.
11.	TOXICOLOGICAL INFORMA	ΓΙΟΝ
11.1	Information on likely routes of e	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 physic	al, chemical and toxicological characteristics
	No data available	
11.3		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	
	· · · · ·	listed as carcinogens by ACGIH, IARC, NTP or OSHA.
12.	ECOLOGICAL INFORMATIO	
	Ecotoxicity	No data available
	Persistence and Degradability	No data available
	Bioaccumulative Potential	No data available
	Mobility in soil	No data available
Re	esults of PBT and vPvB Assessment	None Required
	Other adverse effects	No data available
13.	DISPOSAL CONSIDERATION	
		vith 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 n	ot regulated under ICAO, IMDG or US DOT.
15.	REGULATORY INFORMATIO	N
15.1	USA Federal Regulations	
	SABA 302 No chemicals in this	material are subject to the reporting requirements of SARA Title III. Section 302

ical components with known CAS numbers that exceed the SARA Title III, Section 313 icals known to the State of California to cause cancer or
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correct but does not purport to be all inclusive and shall be this document is based on the present state of our uct with regard to appropriate safety precautions. It does not s of the product. It is not a warranty or quality specification. fic material designated and may not be valid for use in any other process. diagnostic procedures. © Copyright 2018, Pacific Biosciences mation in this document is subject to change without notice. sibility for any errors or omissions in this document. Certain trictions may pertain to your use of Pacific Biosciences ase refer to the applicable Pacific Bioscience Terms and license terms at <u>http://www.pacb.com/legal-and-</u> trictions/. ces logo, PacBio, SMRT, SMRTbell, Iso-Seq, and Sequel BluePippin and SageELF are trademarks of Sage Science. s of GenDx. FEMTO Pulse and Fragment Analyzer are nologies. All other trademarks are the sole property of their
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