

SAFETY DATA SHEET

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Rev. 02

SDS PN: 102-178-000

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Identifier				
	Product Name	SMRTbell [®] Prep Kit 3.0			
	Product Number(s)	102-141-700			
	Other means of identification	This product is a kit box containing 10 reagent tubes			
		Subcomponent Name	Part #	#	Cap Color
		Repair Buffer	102-166-000	1	Purple
		End Repair Mix	102-166-100	1	Blue
		DNA Repair Mix	102-167-700	1	Green
		SMRTbell [®] Adapter	102-167-800	1	Orange
		Ligation Mix	102-167-200	1	Yellow
		Ligation Enhancer	102-179-100	1	Red
		Nuclease Buffer	102-167-900	1	Lt. Purple
		Nuclease Mix	102-166-200	1	Lt. Green
		Elution Buffer	100-159-800	2	White
1.2	Relevant Identified Uses of the Substar	nce or Mixture and Uses Advised A	gainst		
	Identified Use	For preparing SMRTbell [®] libraries.			
	Restrictions on Use	FOR RESEARCH USE ONLY. NOT PROCEDURES.	FOR USE IN [DIAGNO	OSTIC
1.3	Details of the Supplier of the Substance	e 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	D.		
	Supplier phone	+1 650-521-8000			
1.4	Emergency Telephone Number	1			
	Within USA & Canada	Call CHEMTREC 1-800-424-9300 (reference CCN	¥ 65680)5)
	Outside USA and Canada	techsupport@pacb.com			
2.	HAZARD(S) IDENTIFICATION				
2.1	Classification of the substance or mixt	ure			
	The kit as a whole is not a hazardous sub	stance or mixture. ¹ Subcomponents	are classified as	s follow	S

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

	Subcomponent	Name Part	#	Classification	
	Repair	Buffer 102-166	-000	Not a hazardous substance or mixture.	
	End Repa	ir Mix 102-166	-100	Not a hazardous substance or mixture.	
	DNA Repa	ir Mix 102-167	-700	Not a hazardous substance or mixture.	
	SMRTbell [®] Ac	dapter 102-167	-800	Not a hazardous substance or mixture.	
	Ligatio	on Mix 102-167	-200	Not a hazardous substance or mixture.	
	Ligation Enh	ancer 102-179	-100	Not a hazardous substance or mixture.	
	Nuclease	Buffer 102-167	-900	Not a hazardous substance or mixture.	
	Nucleas	e Mix 102-166	-200	Not a hazardous substance or mixture.	
	Elution	Buffer 100-159	-800	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 (HNO	C) or n	ot covered by GHS	
	The End Repair Mix (102-166-100) and Nuclease Buffer (102-167-900) contains bovine derived material.				
	Country of origin USA. C	Certificate of origin	ı availal	ble upon request.	
3.	COMPOSITION / INF	ORMATION ON	I INGR	EDIENTS	
3.1	Substances				
	Common Name	e and Synonyms	SMR	Fbell [®] Template Prep Kit 3.0, SMRTbell [®] TPK 3.0	
		CAS Number	None		
	Other u	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, m	ove per	son into fresh air. If not breathing, give artificial respiration.	
	In case of skin contact	Wash off with wa	ater.		
	In case of eye contact	Flush eyes with	water.		
	If swallowed	Never give anyth	ning 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				
	Treat symptomatically.				
5.	FIRE-FIGHTING MEASURES				
5.1	Suitable Extinguishing Media				
	Dry chemical, carbon dioxide, foam or water.				
5.2	.2 Special hazards arising from the substance or mixture			r mixture	
	Combustion will produce oxides of carbon and nitrogen and sulfur.				
5.3				ipment or precautions)	
	Wear self-contained breathing apparatus for fire-fighting as necessary.			fighting as necessary.	
6.	ACCIDENTAL RELE	ASE MEASURE	S		
6.1	Personal precautions,	protective equip	ment a	nd emergency procedures	

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 STORA	GE				
7.1	Precautions for safe handli	ng				
	Utilize standard good lab pra	ctices.	Use in a well-ventilated area and wear standard PPE.			
7.2	Conditions for safe storage	, inclu	ding any incompatibilities			
	Keep containers tightly close	d at the	e recommended storage temperature.			
8.	EXPOSURE CONTROLS	/ PER	SONAL PROTECTION			
8.1	Control Parameters					
	Contains no substances with	occupa	ational exposure limit values.			
8.2	Exposure Controls					
	Appropriate engineering co	ontrols	:			
	General industrial hygiene pr	actice.	No special ventilation required for normal use.			
	Personal Protective Equip	nent (F	PPE):			
	Eye/Face Protection	Safet	y 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 End Repair Mix, Nuclease Mix, Repair Buffer, Ligation Mix and Ligation Enhancer may have a slight sulfur odor.			
	Odor Thre	shold	No data available			
		рН	7.0-8.5			
Melting point/freezing point		point	No data available			
Initial boiling point and boiling range		ange	No data available			
Flash point		point	No data available			
	Evaporation rate No data available					
	Flammability (solid, gas) No data available					
Upper	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					
	Vise	cosity	No data available			
10.		cosity	No data available			
10.	Vise	cosity VITY	No data available product is not reactive under normal conditions of storage and use.			
10.		cosity VITY This p				
	Vise STABILITY AND REACTI Reactivity	cosity VITY This p Stable	product is not reactive under normal conditions of storage and use.			

Incompatible Mater	als	Avoid contact with strong acids, bases and oxidizers.	
Hazardous Decomposition Produ	cts	No data available. In the event of fire see section 5.	
11. TOXICOLOGICAL IN	TOXICOLOGICAL INFORMATION		
11.1 Information on likely ro	Information on likely routes of exposure		
The most likely route of e	expos	sure is via skin or eye contact. Exposure via inhalation or ingestion is less likely.	
11.2 Symptoms related to the	ne ph	ysical, chemical and toxicological characteristics	
No data available			
11.3 Delayed and immediate	effe	cts and also chronic effects from short and long-term exposure	
E	/es	No data available	
\$	kin	No data available	
Inhalat	ion	No data available	
Ingest	ion	No data available	
Chronic Effe	cts	No data available	
Aggravated Medical Condition	ons	No data available	
Interactions with other Chemic	als	No data available	
11.4 Numerical measures of	i toxi	city	
Acute toxi	city	No data available	
Skin corrosion/irritat	ion	No data available	
Serious eye damage/irritat		No data available	
Respiratory or skin sensitizat	ion	No data available	
Germ cell mutageni	city	No data available	
Reproductive toxi	city	No data available	
Specific target organ toxi	city	No data available	
11.5 Carcinogenicity			
		are listed as carcinogens by ACGIH, IARC, NTP or OSHA.	
12. ECOLOGICAL INFOR	RWA.	ΓΙΟΝ	
Ecoto	xicity	No data available	
Persistence and Degrad	ability	No data available	
Bioaccumulative Pot	entia	No data available	
Mobility	n soi	No data available	
Results of PBT and vPvB Assessment		None Required	
Other adverse e	Other adverse effects No data available		
13. DISPOSAL CONSIDE	RAT	IONS	
Dispose all waste in acc	ordar	ce with local, regional and national regulations.	
Product		See above	
Contaminated Packaging		See above	
		No EPA ID number. Not regulated as a US federal hazardous waste. Not regulated under Title 22 as a California hazardous waste.	
4. TRANSPORT INFORMATION			
Not regarded as dangerous for transportation.			
15. REGULATORY INFO	REGULATORY INFORMATION		
15.1 USA Federal Regulatio	USA Federal Regulations		
SARA 302 No chemic 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section		
	his material does not contain any chemical components with known CAS numbers that exceed threshold reporting levels established by SARA Title III, Section 313		

SARA 311/312 No SARA hazards					
TSCA	Research use only				
15.2 USA State Regulations					
CA Prop 65					
16. OTHER INFOR	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		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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