

Issuing Date: 14Nov19

Revision Date: 18Aug20

Rev. 02
SDS PN: 101-879-400

1. PRODUCT AND COMPANY IDENTIFICATION				
1.1 Product Identifier				
Product Name	SMRTbell® gDNA Sample Amplification Kit			
Product Number(s)	101-980-000			
Other means of identification	This product is a kit box containing 5 reagent tubes.			
	Subcomponent Name	Part #	#	Cap Color
	PCR Master Mix 1	101-869-400	1	Green
	PCR Master Mix 2	101-869-500	1	Light Green
	Sample Amplification PCR Primer	101-869-600	1	Red
	Duplex Buffer	101-980-400	1	Light Purple
Amplification Adapter	101-980-500	1	Purple	
1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against				
Identified Use	For use with the SMRTbell® Express Template Prep Kit 2.0.			
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.				
Subcomponent Name	Part #	Classification		
PCR Master Mix 1	101-869-400	Not a hazardous substance or mixture.		
PCR Master Mix 2	101-869-500	Not a hazardous substance or mixture.		
Sample Amplification PCR Primer	101-869-600	Not a hazardous substance or mixture.		
Duplex Buffer	101-980-400	Not a hazardous substance or mixture.		
Amplification Adapter	101-980-500	Not a hazardous substance or mixture.		
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)

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	SMRTbell® gDNA Sample Amplification 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	
	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 and nitrogen.	
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 No 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	No SARA hazards
TSCA	Research use only
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	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.

For Research Use Only. Not for use in diagnostic procedures. © Copyright 2020, 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/>.

Pacific Biosciences, the Pacific Biosciences logo, PacBio, SMRT, SMRTbell, Iso-Seq, and Sequel are trademarks of Pacific Biosciences. BluePippin and SageELF are trademarks of Sage Science. NGS-go and NGSengine are trademarks of GenDx. FEMTO Pulse and Fragment Analyzer are trademarks of Agilent Technologies. All other trademarks are the sole property of their respective owners.