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Rev. 02

SDS PN: 103-230-000

1. Product and company identification				
1.1 Product identifier				
Product name	Iso-Seq® express 2.0 kit			
Product number(s)	103-071-500			
Other means of identification	This product is a box containing 18 tubes.			
	<i>Subcomponent name</i>	<i>Part #</i>	<i>#</i>	<i>Cap color</i>
	Iso-Seq RT buffer	103-103-900	1	purple
	Iso-Seq RT primer mix	103-104-000	1	orange
	Iso-Seq RT enzyme mix	103-104-100	1	yellow
	Iso-Seq cDNA PCR mix	103-104-200	1	red
	Iso-Seq express TSO 2.0	103-104-300	1	blue
	Iso-Seq cDNA amplification primer	103-104-400	1	green
	Iso-Seq primer bc01	103-104-500	1	white
	Iso-Seq primer bc02	103-104-600	1	white
	Iso-Seq primer bc03	103-104-700	1	white
	Iso-Seq primer bc04	103-104-800	1	white
	Iso-Seq primer bc05	103-104-900	1	white
	Iso-Seq primer bc06	103-105-000	1	white
	Iso-Seq primer bc07	103-105-100	1	white
	Iso-Seq primer bc08	103-105-200	1	white
	Iso-Seq primer bc09	103-105-300	1	white
	Iso-Seq primer bc10	103-105-400	1	white
	Iso-Seq primer bc11	103-105-500	1	white
	Iso-Seq primer bc12	103-105-600	1	white
1.2 Relevant identified uses of the substance or mixture and uses advised against				
Identified use	The Iso-Seq express 2.0 kit contains reagents and oligos for generating full-length cDNA (24 reactions). It includes 12 unique barcoded cDNA primers for multiplexing and is compatible with the Kinnex™ full-length RNA.			
Restrictions on use	Research use only.			
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 USA https://www.pacb.com			
Supplier phone	+1.650.521.8000			
1.4 Emergency telephone number				
Within USA and Canada	Call CHEMTREC 1-800-424-9300 (reference CCN# 656805)			

2. Hazard(s) identification		
2.1 Classification of the substance or mixture		
The kit is not a hazardous substance or mixture. ¹		
<i>Subcomponent name</i>	<i>Part #</i>	<i>Classification</i>
Iso-Seq RT buffer	103-103-900	Not a hazardous substance or mixture.
Iso-Seq RT primer mix	103-104-000	Not a hazardous substance or mixture.
Iso-Seq RT enzyme mix	103-104-100	Not a hazardous substance or mixture.
Iso-Seq cDNA PCR mix	103-104-200	Not a hazardous substance or mixture.
Iso-Seq express TSO 2.0	103-104-300	Not a hazardous substance or mixture.
Iso-Seq cDNA amplification primer	103-104-400	Not a hazardous substance or mixture.
Iso-Seq primer bc01	103-104-500	Not a hazardous substance or mixture.
Iso-Seq primer bc02	103-104-600	Not a hazardous substance or mixture.
Iso-Seq primer bc03	103-104-700	Not a hazardous substance or mixture.
Iso-Seq primer bc04	103-104-800	Not a hazardous substance or mixture.
Iso-Seq primer bc05	103-104-900	Not a hazardous substance or mixture.
Iso-Seq primer bc06	103-105-000	Not a hazardous substance or mixture.
Iso-Seq primer bc07	103-105-100	Not a hazardous substance or mixture.
Iso-Seq primer bc08	103-105-200	Not a hazardous substance or mixture.
Iso-Seq primer bc09	103-105-300	Not a hazardous substance or mixture.
Iso-Seq primer bc10	103-105-400	Not a hazardous substance or mixture.
Iso-Seq primer bc11	103-105-500	Not a hazardous substance or mixture.
Iso-Seq primer bc12	103-105-600	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	Iso-Seq express 2.0 kit	
Cas number	None	
Other unique identifiers	None	
3.2 Hazardous components		
None		
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 inhaled, 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.	

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

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 firefighting 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-octanol/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 USA 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. Research use only. Not for use in diagnostic procedures. ©2023, Pacific Biosciences of California, Inc. ("PacBio"). All rights reserved. Information in this document is subject to change without notice. PacBio 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 PacBio products and/or third-party products. Refer to the applicable PacBio terms and conditions of sale and to the applicable license terms at pacb.com/license . Pacific Biosciences, the PacBio logo, PacBio, Circulomics, Omniome, SMRT, SMRTbell, Iso-Seq, Sequel, Nanobind, SBB, Revio, Onso and Kinnex are trademarks of PacBio.