

Safety data sheet

Issuing date: 21Jul22 **Revision date:** 21Jul22 **Rev.** 01 **SDS PN:** 102-338-300

1	Product and company identific	action					
1.		cation					
1.1	Product identifier Product	nomo	Nanobind tissue kit RT				
	Product num						
	Other means of identifi	` '	102-208-000				
	Other means of identifi	ication	This product is a kit box containing 8 reagent tubes. **Component name** Part # # Cap color**				
		=		Proteinase K (PK)	102-276-600		Cap color yellow
		=		Buffer SB	102-270-000	1	Pink
		=		Buffer EB	102-280-400	1	clear
		=		Buffer BL3	102-277-100	<u>'</u> 1	clear
		=		Buffer CLE3	102-270-800	<u>'</u> 1	
		-		Nanobind disks	102-280-500	1	clear
		=		Buffer CW1	102-276-900	1	clear
		=		Buffer CW2	102-270-900	1	
1.2	Relevant identified uses of the sul	hotonoo	a			- '	clear
	Identified use This kit is used with Nanobind tissue kit 4C (102-208-100) to com HMW DNA extraction from animal tissues (24 reactions)			to complete			
	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				
				0.521.8000			
1.4	Emergency telephone number						
				HEMTREC 1-800-424-9300 (re	ference CCN# 6	556805))
	Outside USA and C	anada	techsi	upport@pacb.com			
2.	Hazard(s) identification						
2.1	Classification of the substance or						
	The kit contains hazardous substa			•			
	` '	102-276-		Skin irritation (category 3), Resp	iratory sensitizer	(catego	ry 1)
		102-280-		Not a hazardous material.			
				Acute toxicity, oral (category 4), Acute toxicity, inhalation (category 4),			

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

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Buffer CLE3	102-280-500	Skin irritation (category 3), Eye irritation (category 2), Acute aquatic toxicity (category 3).
Nanobind disks	102-276-500	Not a hazardous material.
Buffer CW1	102-276-900	Skin irritation (category 3), Acute aquatic toxicity (category 3), Chronic aquatic toxicity (category 3)
Buffer CW2	102-277-000	Not a hazardous material.

2.2 GHS label elements and precautionary statements

Information is provided for the hazardous components listed in section 2.1					
Component	Pictogram	Signal word	Hazard statement(s)	Precautionary statement(s)	
Proteinase K (PK)		Danger	 Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. 	 If skin irritation occurs, get medical attention. Avoid breathing mist, vapors, or spray. In case of inadequate ventilation, wear respiratory protection. If inhaled, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get emergency medical help immediately. Dispose of contents and container in accordance with local regulations. 	
Buffer BL3	•••	Warning	 Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation Harmful to aquatic life. 	 Do not eat, drink, or smoke when using this product. Use in well-ventilated area. Wear protective gloves and eye protection. Avoid breathing mist, vapors, or spray. Wash hands thoroughly after handling. If swallowed, rinse mouth and call poison center or doctor if you feel unwell. If inhaled, remove person to fresh air and keep comfortable for breathing. Call poison center or doctor if you feel unwell. If on skin, wash with plenty of water. If skin irritation occurs, get medical attention. If in eye, rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice. Take off contaminated clothing and wash before reuse. Dispose of contents and container in accordance with local regulations. 	
Buffer CLE3	(!)	Warning	 Causes serious eye irritation. Causes mild skin irritation. Harmful to aquatic life. 	 Wash hands thoroughly after handling. If in eye, rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice. Dispose of contents and container in accordance with local regulations. 	
Buffer CW1	None	Warning	Causes mild skin irritation. Harmful to aquatic life Harmful to aquatic life with long lasting effects	If skin irritation occurs, get medical attention. Avoid release to the environment. Dispose of contents and container in accordance with local regulations.	

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS Proteinase K is of biological origin. It is produced by the fungus *Tritirachium album Limber*.

Composition / information on ingredients

3.1 Substances

3.

3.1 Substances		
Common name an	d synonyms Nanobind tissue kit RT	
(CAS number None	
Other uniqu	e identifiers None	

3.2 Hazardous components

The following hazardous ingredients are present.

Component	Hazardous ingredient(s)	CAS	GHS classification	Concentration (wt%)
Proteinase K (PK)	Proteinase K	39450-01-6	Eye irritation (category 2), Skin irritation (category 2A), Respiratory sensitizer (category 1), Specific target organ toxicity – single exposure (category 3)	2%
Buffer BL3	Guanidine hydrochloride	50-01-1	Acute Toxicity, oral (category 4), Acute toxicity, inhalation (category 4), Skin irritation (category 2), Eye irritation (category 2A), Acute aquatic toxicity (category 3)	76%
Buffer CLE3	Trade secret	Trade secret	Acute Toxicity, oral (category 4), Acute toxicity, inhalation (category 4), Skin irritation (category 2), Serious eye damage (category 1), Specific target organ toxicity, respiratory – single exposure (category 3), Acute aquatic toxicity (category 2), Chronic aquatic toxicity (category 3)	2.9%
Buffer CW1	Guanidine hydrochloride	50-01-1	Acute Toxicity, oral (category 4), Acute toxicity, inhalation (category 4), Skin irritation (category 2), Eye irritation (category 2A), Acute aquatic toxicity (category 3)	7%
Buffer CW1	Trade secret	Trade secret	Acute Toxicity, oral (category 4), Skin irritation (category 2), Serious eye damage (category 1), Acute aquatic toxicity (category 1), Chronic aquatic toxicity (category 1)	0.75%

4. First aid measures

4.1 Description of first aid measures

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General advice	Consult a physician. Show this safety data sheet to the physician. Follow the general practices listed for all components and specific practices as noted.			
If inhaled	If breathed in, move person into fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. • PK: If experiencing respiratory symptoms, get emergency medical help immediately. • BL3: Call poison center or doctor if you feel unwell.			
In case of skin contact	Wash off with water. PK: If skin irritation occurs, get medical attention. BL3: Wash with plenty of water. If skin irritation occurs, get medical attention CW1: If skin irritation occurs, get medical attention.			
In case of eye contact	Flush eyes with water. CLE3: If in eye, rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice. BL3: If in eye, rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.			
If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with wa				

4.2 Most important symptoms/effects, both acute and delayed

No data available. Refer to section 2.2 and section 11 for additional information.

BL3: If swallowed, rinse mouth and call poison center or doctor if you feel unwell.

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. Fire may produce irritating gas. Runoff may pollute waterways. 5.3 Advice for firefighters (special protective equipment or precautions) Wear self-contained breathing apparatus for fire-fighting as necessary. 6. Accidental release measures Personal precautions, protective equipment and emergency procedures 6.1 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 For all components, utilize standard good lab practices, use in a well-ventilated area, and wear standard PPE (gloves, labcoat, safety glasses). In addition to the general practices, follow specific practices as noted. PK: Avoid breathing mist, vapors, or spray. In case of inadequate ventilation, wear respiratory protection. CLE3: Wash hands thoroughly after handling. BL3: Do not eat, drink, or smoke when using this product. Avoid breathing mist, vapors, or spray. Wash hands thoroughly after handling. 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 and administrative controls: General industrial hygiene practice. No special ventilation required for normal use. BL3: Take off contaminate clothing and wash before reuse. 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 Each reagent tube contains clear colorless liquid. BL3 may appear slightly Appearance yellowish. No odor Odor Odor threshold No data available

		750	
	рН	7.5-9	
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	
U	Ipper/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	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 an	d 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 (in	nclude calculated values?)	
	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 I	isted as carcinogens by ACGIH, IARC, NTP or OSHA.	

12 Foologi	and information		
12. Ecologi	cal information		
	Ecotoxicity	No data available	
	istence and degradability	No data available	
В	lioaccumulative potential	No data available	
D 11 (D)	Mobility in soil	No data available	
Results of Pt	3T and vPvB assessment	None Required	
12 Diames	Other adverse effects	No data available	
•	al considerations		
Dispose		ith local, regional and national regulations.	
	Product	See above.	
	Contaminated packaging	See above.	
	US EPA waste number	No EPA waste numbers apply. Not regulated as a US federal hazardous waste. May be regulated under individual state laws.	
14. Transpe	ort information		
Transpo	rtation of this product is no	ot regulated under ICAO, IMDG or US DOT.	
15. Regulat	tory information		
15.1 USA fed	eral regulations		
SARA 302	No chemicals in this mat	terial are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313		ontain any chemical components with known CAS numbers that exceed the s established by SARA Title III, Section 313.	
SARA 311/312	PK: Respiratory Sensitize	er.	
	CLE3: Eye irritation.		
	BL3: Acute toxicity (oral)	, Acute toxicity (inhalation), Eye irritation, Skin irritation.	
TSCA	Research use only		
15.2 USA sta	te regulations		
CA Prop 65	This kit does not contain reproductive health effective	any chemicals known to the state of California to cause cancer or adverse	
16. Other inform	nation		
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 knowled and is applicable to the product with regard to appropriate safety precautions. It does not represent 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 an other material or in any other process. Research use only. Not for use in diagnostic procedures. ©2022, Pacific Biosciences of California, ("PacBio"). All rights reserved. Information in this document is subject to change without notice. Passumes no responsibility for any errors or omissions in this document. Certain notices, terms,			
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