

Safety data sheet

Issuing date: 20Jul22 **Revision date:** 20Jul22 **Rev.** 01 **SDS PN:** 102-337-800

1.	Product and company identification	ation					_	
1.1	Product identifier							
	Product	name	Nanob	oind CBB kit RT				
	Product numb	ber(s)	102-20	07-600				
	Other means of identific	cation	This p	roduct is a kit box containing 7	7 reagent tubes	3.		
				Component name	Part #	#	Cap color	
				Proteinase K (PK)	102-276-600	1	Yellow	
				Buffer CLE3	102-276-700	1	Red	
				Buffer EB	102-277-100	1	Clear	
				Buffer BL3	102-276-800	1	Clear	
				Nanobind disks	102-276-500	1	Clear	
			· · · · · · · · · · · · · · · · · · ·	Buffer CW1	102-276-900	1	Clear	
				Buffer CW2	102-277-000	1	Clear	
1.2 Relevant identified uses of the substance or mixture and uses advised against								
Identified use			•	,	•			
	Restrictions on use Re			rch use only.				
1.3	Details of the supplier of the subst	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 p	phone	+1.650.521.8000					
1.4	Emergency telephone number							
	Within USA and Ca		, , , , , , , , , , , , , , , , , , , ,					
	Outside USA and Canada techsupport@pacb.com			ipport@pacb.com				
2.	Hazard(s) identification							
2.1	Classification of the substance or I							
	The kit contains hazardous substances.1							
	Proteinase K (PK) 1	102-276-6	00	Skin irritation (category 3), Resp				
	Buffer CLE3 1	102-276-7	'00	Skin irritation (category 3), Eye in toxicity (category 3).	rritation (categor	y 2), Acu	te aquatic	
	Buffer EB 1	102-277-1	00	Not a hazardous material.				
	Buffer BL3 1	102-276-800		Acute toxicity, oral (category 4), Skin irritation (category 2), Eye in toxicity (category 3)				

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

Page 1 of 6

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.

GHS label elements and precautionary statements 2.2

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 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 BL3	<u>(!</u>)	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 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*.

3. Composition / information on ingredients

3.1 Substances

3.1 Substances	
Common name and synonyms	Nanobind CBB kit RT
CAS number	None
Other unique 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 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 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 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

4.2

4.1 Description of first aid measures

4.1	4.1 Description of first aid measures			
	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 water.		

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.	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 sestablished by SARA Title III, Section 313.		
SARA 311/312	PK: Respiratory Sensitize	K: Respiratory Sensitizer.		
	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 Continuous Environment, Health and 1305 O'Brien Drive Menlo Park, CA 94025 USA safety@pacb.com	·		
Further information	used only as a guide. The and is applicable to the p guarantee of the properti relates only to the specif other material or in any of Research use only. Not for ("PacBio"). All rights reseassumes no responsibili	or use in diagnostic procedures. ©2022, Pacific Biosciences of California, Inc. erved. Information in this document is subject to change without notice. PacBio ty for any errors or omissions in this document. Certain notices, terms,		
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