

Safety data sheet

Issuing date: 25Jan23 **Revision date:** 25Jan23 **Rev.** 01 **SDS PN:** 102-936-700

1.	Product and company identification	n						
1.1	Product identifier							
	Product nam	ie Nanc	bbind® HT CBB kit RT					
	Product number(s) 102-7	762-900					
	Other means of identification This product is a kit box containing 7 reagent tubes.			S.				
			Component name	Part #	#	Cap color		
			Proteinase K (PK)	102-783-100	1	Clear		
			Nanobind® disks	102-783-600	1	Clear		
			Buffer EB	102-782-800	1	Clear		
			Buffer CLE3	102-783-200	1	Clear		
			Buffer BL3	102-783-300	1	Clear		
			Buffer CW1	102-783-400	1	Clear		
			Buffer CW2	102-783-500	1	Clear		
1.2	Relevant identified uses of the substance or mixture and uses advised against							
	Identified us	763-0	This kit is used in conjunction with Nanobind® HT CBB kit 4C (102-763-000) to complete automated HMW DNA extraction from cells, bacteria, and blood (96 reactions)			•		
	Restrictions on us	estrictions on use Research use only.						
1.3	Details of the supplier of the substance	e or mixtu	ire					
	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 Canad		CHEMTREC 1-800-424-9300 (re	ference CCN#	656805)		
0	Outside USA and Canad	la techs	support@pacb.com					
2.	Hazard(s) identification							
2.1	Classification of the substance or mixture							
			Each component is classified as follows.					
	, ,	783-100	Skin irritation (category 3), Resp	oratory sensitizer	(catego	ry 1)		
		783-600	Not a hazardous material.					
		782-800 783-200	Not a hazardous material. Skin irritation (category 3), Eye i toxicity (category 3).	rritation (categor	y 2), Acu	te aquatic		

Page 1 of 7

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

Buffer BL3	102-783-300	Acute toxicity, oral (category 4), Acute toxicity, inhalation (category 4), Skin irritation (category 2), Eye irritation (category 2A), Acute aquatic toxicity (category 3)
Buffer CW1	102-783-400	Skin irritation (category 3), Acute aquatic toxicity (category 3), Chronic aquatic toxicity (category 3)
Buffer CW2	102-783-500	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 CLE3	!	Warning	 Causes serious eye irritation. Causes mild skin irritation. Harmful to aquatic life. 	 Wash hands thoroughly after handling. Wear eye protection. Avoid release to the environment. If in eye, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice. If skin irritation occurs, get medical help. 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

O: 1 Gubotanoco	
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

4.1 Description of first aid measures

beomption of mot did medicares			
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. CL3: 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. • BL3: If swallowed, rinse mouth and call poison center or doctor if you feel unwell.		

4.0	No. of increased an annual constraint of the state of the				
4.2	Most important symptoms/effects, both acute and delayed				
4.2	No data available. Refer to section 2.2 and section 11 for additional information. Indication of any immediate medical attention and special treatment needed No data available				
4.2					
5.	Fire-fighting measures				
5.1	Suitable extinguishing media				
5.2	Dry chemical, carbon dioxide, foam, or water. Special hazards arising from the substance or mixture				
J.Z	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				
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				
	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.				
	BL3: Do not eat, drink, or smoke when using this product. Avoid breathing mist, vapors, or spray. Wash hands				
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Odor	No odor		
Odor threshold	No data available		
pH	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		
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 ex	posure		
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	No data available		
11.3 Delayed and immediate effects ar	nd also chronic effects from short-and long-term exposure		
Eyes	No data available		
	1		
Skin	No data available		
Skin Inhalation	No data available No data available		
Inhalation	No data available		
Inhalation Ingestion	No data available No data available No data available No data available		
Inhalation Ingestion Chronic effects	No data available No data available No data available		
Inhalation Ingestion Chronic effects Aggravated medical conditions	No data available		
Inhalation Ingestion Chronic effects Aggravated medical conditions Interactions with other chemicals	No data available		
Inhalation Ingestion Chronic effects Aggravated medical conditions Interactions with other chemicals 11.4 Numerical measures of toxicity (in	No data available nolude calculated values?)		
Inhalation Ingestion Chronic effects Aggravated medical conditions Interactions with other chemicals 11.4 Numerical measures of toxicity (in Acute toxicity)	No data available		
Inhalation Ingestion Chronic effects Aggravated medical conditions Interactions with other chemicals 11.4 Numerical measures of toxicity (in Acute toxicity Skin corrosion/irritation	No data available nclude calculated values?) No data available No data available		
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Inhalation Ingestion Chronic effects Aggravated medical conditions Interactions with other chemicals 11.4 Numerical measures of toxicity (in Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	No data available noclude calculated values?) No data available		

11.5	Carcinogenicity				
		o ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.			
12.	Ecologi	ical information			
		Ecotoxicity	No data available		
	Persi	stence and degradability	No data available		
	В	ioaccumulative potential	No data available		
		Mobility in soil	No data available		
Re	esults of PE	BT and vPvB assessment	None Required		
		Other adverse effects	No data available		
13.	Disposa	l considerations			
	Dispose	all waste in accordance w	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.	Transpo	ort information			
	Transpo	rtation of this product is no	ot regulated under ICAO, IMDG or US DOT.		
15.	Regulat	ory information			
15.1	15.1 USA federal regulations				
Ç	SARA 302	No chemicals in this mat	erial 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 PK: Respiratory Sensitize		PK: Respiratory Sensitize	er.		
CLE3: Eye irritation.		CLE3: Eye irritation.			
BL3: Acute toxicity (oral), Acute toxicity (inhalation), Eye irritation, Skin irritation.		, Acute toxicity (inhalation), Eye irritation, Skin irritation.			
	TSCA Research use only				
15.2	USA stat	e regulations			
C	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 The above information is believed to be correct but does not purport to be all inclusive and shall be information 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, and Onso are trademarks of PacBio.