

Safety data sheet

Issuing date: 25Jan23 **Revision date:** 25Jan23 **Rev.** 01 **SDS PN:** 102-919-300

1.	Product and company identific	cation					
1.1	Product identifier						
	Product	t name	Nanob	oind® HT 1 mL blood kit RT			
	Product num	nber(s)	102-7	53-100			
	Other means of identifi	ication	This p	roduct is a kit box containing ?	7 reagent bottle	es.	
				Component name	Part #	#	Cap color
				Proteinase K (PK)	102-782-400	1	Clear
				Nanobind® disks	102-782-900	1	Clear
				Buffer EB	102-782-800	2	Clear
				Buffer BL3	102-782-500	1	Clear
				Buffer CW1	102-782-600	1	Clear
				Buffer CW2	102-782-700	2	Clear
1.2	Relevant identified uses of the su	bstance	or mix	ure and uses advised against			•
	Identified use			This kit is used in conjunction with Nanobind® HT 1 mL blood kit 4C (102-763-200) to complete automated HMW DNA extraction from 1 mL blood (96 reactions).			
	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 C	Canada	Call C	HEMTREC 1-800-424-9300 (re	ference CCN# 6	656805)
	Outside USA and Canada techsupport@pacb.com						
2.	Hazard(s) identification						
2.1	Classification of the substance or mixture						
	The kit contains hazardous substa	ances. ¹ I	Each co	omponent is classified as follo	WS.		
	Proteinase K (PK)	102-782-	400	Skin irritation (category 3), Resp	iratory sensitizer	(catego	ry 1)
	Nanobind® disks	102-782-		Not a hazardous material.			
	Buffer EB	102-782-					
	Buffer BL3 102-782-		Acute toxicity, oral (category 4), Acute toxicity, inhalation (category 4), Skin irritation (category 2), Eye irritation (category 2A), Acute aquatic toxicity (category 3)				

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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 CW1 102-782-			2-600	Skin irritation (category 3), Acute aquatic toxicity (category 3), Chronic aquatic toxicity (category 3)				
Buffer CW2 102-782-			2-700	-700 Not a hazardous material.				
2.2 GHS label elements and precautionary statements								
Informat	Information is provided for the hazardous components listed in section 2.1							
Component		Signal word		d statement(s)	Precautionary statement(s)			
Proteinase K (PK)		Danger	Cau May asth	ses mild skin irritation. cause allergy or ma symptoms or thing difficulties if	 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	Harr Cau irrita Cau	mful if swallowed. mful if inhaled. ses serious eye ation. ses skin irritation. mful 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	Harr Harr with	ses mild skin irritation. mful to aquatic life mful to aquatic life 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 o	lassified (HNOC)	or not c	overed by GHS				
Proteina	Proteinase K is of biological origin. It is produced by the fungus <i>Tritirachium album Limber</i> .							
3. Compo	sition / inform	ation on ingredi	ients					
3.1 Substan			_					
	Common nam	e and synonyms		Nanobind® HT 1 mL blood kit RT				
		CAS number	None					
	Other u	nique identifiers	None	None				

3.2 Haza	rdous components	3					
The f	ollowing hazardou	s ingredier	nts are present.				
Component	Hazardous ing	redient(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 hydrochl		ochloride	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 hydrod		ochloride	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 Desci	iption of first aid	measures					
	General advice			ow 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.					
		•					
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 If swallowed		Flush eyes with water. • 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.					
		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.					
4.2 Most							
No da	nta available. Refe	r to sectior	2.2 and section	n 11 for additional information.			
4.2 Indica	ation of any imme	diate medi	cal attention ar	nd special treatment needed			
	ita available						
5. Fire-	Fire-fighting measures						
5.1 Suita	ble extinguishing	media					
Dry cl	Dry chemical, carbon dioxide, foam, or water.						
	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.						
		special pro	otective equipn	ment or precautions)			
	3 Advice for firefighters (special protective equipment or precautions) Wear self-contained breathing apparatus for fire-fighting as necessary.						
	Accidental release measures						
6.1 Personal precautions, protective equipment and emergency procedures							
				al 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.
- 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

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Appearance	Each reagent tube contains clear colorless liquid. BL3 may appear slightly yellowish.
Odor	No odor
Odor threshold	No data available
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
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.	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 exp	oosure				
	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	oclude 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					
		isted 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				
F	Results of PBT and vPvB assessment	None Required				
	Other adverse effects No data available					
13.	Disposal 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. Transp	ort information					
Transpo	rtation of this product is not regulated under ICAO, IMDG or US DOT.					
15. Regulat	tory information					
15.1 USA fed	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	PK: Respiratory Sensitizer.					
	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 any chemicals known to the state of California to cause cancer or adverse reproductive health effects					
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 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.					
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