

Safety data sheet

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SDS PN: 102-338-700

1.	Product and company identi	ification						
1.1	Product identifier							
	Prod	uct name	Nanol	pind plant nuclei kit RT				
	Product n	umber(s)	102-207-800					
	Other means of iden	tification	This p	roduct is a kit box containing	5 reagent tubes	i.		
				Component name	Part #	#	Cap color	
				Proteinase K (PK)	102-280-100	1	yellow	
				Buffer EB	102-277-100	1	clear	
				Buffer PL1	102-279-700	1	clear	
				Nanobind disks	102-279-400	1	clear	
				PW1	102-279-800	1	clear	
1.2	Relevant identified uses of the	substance	or mix	ture and uses advised against	l			
	Iden	tified use	This k	it is used with Nanobind plant	nuclei kit 4C (1	02-207	-900) to	
			complete HMW DNA extraction from plant nuclei (24 reactions)					
	Restriction	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)				
	Outside USA and Canada techsupport@pacb.com							
2.	Hazard(s) identification							
2.1	Classification of the substance or mixture							
	The kit contains hazardous sub	stances.1	Each co	omponent is classified as follo	WS.			
	Proteinase K (PK)	102-276	-600	Skin irritation (category 3), Resp	iratory sensitizer	(catego	ry 1)	
	Buffer EB	102-277	-100	Not a hazardous material.				
	Buffer PL1	102-279	-700	Skin irritation (category 3), Eye irritation (category 2A), Specific target organ toxicity – repeat oral exposure - gastrointestinal (category 2), Acute aquatic toxicity (category 3).				
	Nanobind disks	102-276	-500	Not a hazardous material.				
	PW1	102-279	-800	Not a hazardous material.				
2.2	GHS label elements and precau	utionary sta	atemen	ts				
	Information is provided for the l	hazardous	compo	nents listed in section 2.1				

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

<u> </u>	omponent	Pictogram	Signal	word	Haza	rd statement(s)	Precautionary statement((s)
Protei	nase K (PK)		Dan	ger	 May asth brea 	uses mild skin irritation. y cause allergy or nma symptoms or athing difficulties if aled.	 If skin irritation occurs, get mediattention. Avoid breathing mist, vapors, or In case of inadequate ventilation respiratory protection. If inhaled, remove person to frest 	
	Buffer PL1		Warn	iing	 Cau irrita May gas thro report 	uses mild skin irritation leses serious eye ation. / cause damage to trointestinal organs ough prolonged or eated oral exposure. mful to aquatic life.	 If skin irritation occurs, get attention. Wash hands thoroughly aft Wear eye protection. Avoid breathing mist, vapo Avoid release to the enviroi If in eye, rinse cautiously for minutes. Remove contact I and easy to do. Continue ri irritation persists, get medi Get medical help if feel unv Dispose of contents and co accordance with local regulation 	medical er handling. rs, or spray. nment. or several enses if present nsing. If eye cal advice. vell. ontainer in
2.3	Hazards	not otherwise o	classified ((HNOC)	or not	covered by GHS		
	Proteina	se K is of biolog	gical origin	. It is p	roduced	I by the fungus <i>Tritira</i> d	chium album Limber.	
3.	Compos	sition / inform	ation on i	inaredi	ients			
3.1	Substan							
5.1	Substant	Common nam	e and synd	onyms	Nanol	pind plant nuclei kit RT	-	
				umber	None			
		Other ι	unique ider	ntifiers	None			
3.2	Hazardo	us components	:		1			
		wing hazardous		nts are r	present.			
Compo		Hazardous ingr		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 PL1		Trade secret		Trade secret		Acute Toxicity, oral (category 4), Skin irritation (category 2), Serious eye damage (category 1), Specific target organ toxicity, respiratory – single inhalation exposure (category 3), Specific target organ toxicity – repeat oral exposure - gastrointestinal (category 2), Acute aquatic toxicity (category 1)		2%
4.	First aid	measures						
	Descript	ion of first aid r	neasures					
		eneral advice					eet to the physician. Follow ic practices as noted. Get m	
	G						•	
4.1	G	If inhaled	feel unwe If breathe breathing	ell. ed in, m g, give a	ove pers rtificial	son into fresh air and l respiration.	keep comfortable for breathi	ing. If not

	In case of skin contact	Wash off with water.			
		PK: If skin irritation occurs, get medical attention.			
		PL1: If skin irritation occurs, get medical attention.			
	In case of eye contact	 Flush eyes with water. PL1: 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.			
4.2	Most important sympto	ms/effects, both acute and delayed			
	No data available. Refer	to section 2.2 and section 11 for additional information.			
4.2	Indication of any immed	diate medical attention and special treatment needed			
	No data available				
5.	Fire-fighting measure	25			
5.1	Suitable extinguishing r	nedia			
	Dry chemical, carbon die	oxide, foam, or water.			
5.2	Special hazards arising	from the substance or mixture			
	Combustion will produc waterways.	e oxides of carbon and nitrogen. Fire may produce irritating gas. Runoff may pollute			
5.3	Advice for firefighters (special protective equipment or precautions)			
	Wear self-contained bre	athing apparatus for fire-fighting as necessary.			
6.	Accidental release m	easures			
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 precauti	ons			
	Avoid release to the env	ironment. Report spills and releases as required to appropriate authorities.			
6.3	Methods and materials for cleanup				
	Wear personal protectiv	e 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. PL1: Wash hands thoroughly after handling. Avoid breathing mist, vapors, or spray. 				
7.2	Conditions for safe storage, including any incompatibilities				
		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				
		g and administrative controls:			
		ne practice. No special ventilation required for normal use.			
	Personal protective equ				
	Eye/face p				
	Skin and body p				
	Respiratory p	protection None required			

9. Physical and chemical properties				
9.1 Information on I	basic physical and	chemical properties		
	Appearance	Each reagent tube contains clear colorless liquid.		
Odor		No odor		
Odor threshold		No data available		
	рH	7.5 - 9.0		
Melting po	int/freezing point	No data available		
Initial boiling point	and boiling range	No data available		
	Flash point	No data available		
	Evaporation rate	No data available		
Flamma	ability (solid, gas)	No data available		
Upper/lower flamma	bility 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-ign	ition temperature	No data available		
Decompos	ition temperature	No data available		
	Viscosity	No data available		
10. Stability and r	eactivity			
	Reactivity	This product is not reactive under normal conditions of storage and use.		
(Chemical stability	Stable under recommended storage conditions.		
Possibility of haz	ardous reactions	No data available		
Сс	onditions to avoid	No data available		
Incom	patible materials	Avoid contact with strong acids, bases and oxidizers.		
Hazardous decom	position 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 i	s via skin or eye contact. Exposure via inhalation or ingestion is less likely.		
11.2 Symptoms relat	ed to the physical,	chemical and toxicological characteristics		
No data availab	e			
11.3 Delayed and im	mediate 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 m	edical conditions	No data available		
	Interactions with other chemicals No data available			
11.4 Numerical meas		nclude calculated values?)		
	Acute toxicity	No data available		
	orrosion/irritation	No data available		
	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 Care	cinogenicity					
No i	ngredients in this product are l	isted as carcinogens by ACGIH, IARC, NTP or OSHA.				
12. Eco	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. Dis	oosal considerations					
Disp	ose 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. Tra	nsport information					
Transportation of this product is not regulated under ICAO, IMDG or US DOT.						
15. Regulatory information						
15.1 USA federal regulations						
SARA	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 Sensitize		er.				
PL1: Eye irritation, Specifi		fic target organ toxicity (repeat exposure).				
TS	CA 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.				
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