

Catalog number	Product name
hC001-XXXX	Whole blood processing kit (human)
hC002-XXXX	Whole blood processing kit (human)/Gen2
mC001-XXXX	Whole blood processing kit (murine)
mC002-XXXX	Whole blood processing kit (murine)/Gen2
	Components
hC001-XXXX -F01 hC002-XXXX -F01	Fix concentrate (human)
mC001- <i>XXXX</i> -F01 mC002- <i>XXXX</i> -F01	Fix concentrate (murine)
XXXX	Corresponds to variable kit size

1/11



SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1. Product identifiers					
Product name:	Fix concentrate				
Product number:	hC001-XXXX-F01/mC001-XXXX-F01				
Brand:	Cytodelics	Cytodelics			
1.2. Relevant identified uses	s of the substance or mixture and uses advised against				
Identified uses:	Fixation of biolog	gical materials; resear	ch use only		
1.3. Details of the supplier of	*				
Company:		Cytodelics AB			
	Forskargatan 20J				
	151 36 Södertälje	2			
	Sweden				
Telephone:	+46(0) 70851785	56			
Fax:	Not available				
Email:	info@cytodelics.c	com			
1.4. Emergency telephone n					
Emergency phone:		cal emergency, spill, f	ire, or exposure		
	Country	Phone numbers			
	Australia	1800 127 406	+64 4 917 9888		
	New Zealand	0800 764 766	0800 243 622		
	Finland	09 471 977	09 4711		
	Sweden	112			
	Norway	22 59 13 00	113		
	Denmark 82 12 12 12				
	Czech Republic	224 919 293	224 915 402		
	France 0145425959				
SECTION 2: Hazards identifica					
2.1. Classification of the sub					
According to the GHS and CLP t	his substance:				
• is toxic if swallowed,					
• is toxic in contact with sk	•				
causes severe skin burns	and eye damage,				
• is toxic if inhaled,					
• may cause cancer,					
• is suspected of causing g					
• may cause an allergic ski			-		
Additionally, the classification					
registrations identifies that this			ge to organs, causes		
serious eye damage and is suspe	cted of causing cance	er.			
CUS Classification A		2) 11204			
	icity, Oral (Category	-			
	icity, Inhalation (Cat	• • •			
	icity, Dermal (Catego				
Serious e	Serious eye irritation (Category 2), H319				
Skin sens	itization (Category 1), H317			

	Skin irritation (Category 2), H315					
	Germ cell mutagenicity (Category 2), H341					
	Carcinogenicity (Category 1A), H350					
	Specific target organ toxicity - single exposure (Category 3), H335					
	Acute aquatic toxicity (Category 3), H402					
	For the full text of the H-Statements mentioned in this Section, see Section 16.					
Classification – EC	H351, H331, H311, H301, H314, H317, H341, H350, H370, H402					
1272/2008						
2.2. Label elements						
Hazard pictograms:						
Signal word:	Danger					
Hazard statements:						
H301	Toxic if swallowed.					
H311	Toxic in contact with skin.					
H315	Causes skin irritation.					
H317	May cause an allergic skin reaction.					
H319	Causes serious eye irritation.					
H331	Toxic if inhaled.					
H335	May cause respiratory irritation.					
H341	Suspected of causing genetic defects.					
H350	May cause cancer.					
H351	Suspected of causing cancer.					
H370	Causes damage to organs.					
H400	Very toxic to aquatic life.					
EUH 208	Contains formaldehyde. May produce an allergic reaction.					
Precautionary state						
P201	Obtain special instructions before use.					
P202	Do not handle until all safety precautions have been read					
D010	and understood.					
P210	Keep away from heat/sparks/open flames/hot surfaces.					
	No smoking.					
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.					
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.					
P264	Wash skin thoroughly after handling.					
P270	Do not eat, drink or smoke when using this product.					
P271	Use only outdoors or in a well-ventilated area.					
P272	Contaminated work clothing should not be allowed out of					
	the workplace.					
P273	Avoid release to the environment.					

P280		Wear protective gloves/ protective clothing/ eye			
		protection/ fa	ice protection.		
P281		Use personal protective equipment as required.			
P301 + P310 +	P330	IF SWALLOW	ED: Immediately call a	a POISON	
		CENTER/doct	or. Rinse mouth.		
P301 + P330 +	P331	•	ED: Rinse mouth. Do N	NOT induce vomiting.	
P303 + P361 +	P353	IF ON SKIN (o	r hair): Take off imme	ediately all	
		contaminated	clothing. Rinse skin v	vith water/shower.	
P304 + P340 +	P310		Remove person to fres or breathing. Immedia cor.	-	
P305 + P351 +	P338 + P310	IF IN EYES: Ri	nse cautiously with w	ater for several	
			ing. Immediately call a	present and easy to do. A POISON	
P307 + P311		,	all a POISON CENTER	or doctor/ physician.	
P333 + P313			on or rash occurs: Get	· · ·	
		attention.		,	
P362		Take off conta	minated clothing and	wash before reuse.	
P370 + P378		In case of fire: Use dry sand, dry chemical or alcohol-			
		resistant foan	n to extinguish.		
P403 + P233		Store in a well-ventilated place. Keep container tightly closed.			
P403 + P235		Store in a wel	l-ventilated place. Kee	ep cool.	
P405		Store locked ι	-	-	
P501		Dispose of contents/ container to an approved waste disposal plant.			
2.2 Other her	anda				
2.3. Other haz	arus				
SECTION 2. Com	nosition /inform	ation on in an	dianta		
SECTION 3: Com	A				
3.1. Substances (H	EC 1272/2008)	Not applicable			
3.2. Mixtures					
3.2. MIXTURES	Index number in	CAS number	EC number	Weight % content	
name	CLP Annex VI		EC number	(or range)	
Formaldehyde	605-001-00-5	50-00-0	200-001-8	< 10 %	
SECTION 4: First	aid measures				
4.1. Description	of first aid meas	sures			
Inhalation:	Move the exp artificial resp	xposed person to fresh air. If breathing stops, provide spiration.			
Eye contact:				8	



Skin contact:	stuck to skin	ontaminated clothes and footwear immediately unless . Wash off immediately with plenty of soap and water. Seek ntion if irritation or symptoms persist.		
T				
Ingestion:	DO NOT INDUCE VOMITING. Never give anything by mouth to an			
		person. Rinse mouth thoroughly. Call for medical help		
	-	. Make victim drink water (maximum of 2 drinking glasses)		
	Subsequentl	y administer: activated charcoal (20 - 40 g in 10 % slurry)		
General	If you feel ur	well, seek medical advice (show the label where possible).		
information:	ii you ieei ui	iwen, seek meulear advice (snow the laber where possible).		
	symptoms on	l offects, both coute and deleved		
		d effects, both acute and delayed		
-		oms and effects are described in the labeling (see section		
2.2.) and/or in section				
	y immediate n	redical attention and special treatment needed		
No data available				
SECTION 5: Fire-fig	hting measu	es		
5.1. Extinguishing r	ð			
Suitable extinguishir		Use water spray, alcohol-resistant foam, dry chemical or		
Suitable extinguisining incuid.		carbon dioxide.		
Unsuitable extinguis	hing modia:	No information available		
5.2. Special hazards arising		Combustible material. Risk of ignition. Containers may		
from the substance	or mixture	explode when heated. Thermal decomposition can lead to		
		release of irritating gases and vapors. Keep product and		
		empty container away from heat and sources of ignition.		
		Vapours are heavier than air and may spread along floors.		
		Can form explosive gas-air mixtures.		
5.3. Advice for fire-fighters		Wear self-contained respiratory protective device. [1]		
		to avoid contact with skin, keep a safety distance and wear		
		suitable protective clothing.		
SECTION 6: Acciden	ntal release m	ieasures		
6.1. Personal preca	utions.	Wear suitable protective clothing. Avoid breathing vapors,		
protective equipme		mist or gas. Avoid formation of dust. Ensure adequate		
emergency procedu		ventilation of the working area. Evacuate personnel to a safe		
- Beney proceed		area.		
6.2. Environmental		Prevent further spillage if safe. Do not allow product to enter		
precautions		drains.		
6.3. Methods and m	atorial for	Remove all sources of ignition. Avoid raising dust. Sweep up.		
		Soak up with inert absorbent material. Transfer to suitable,		
containment and cl	leaning up	· ·		
	1	labeled containers for disposal.		
6.4. Reference to ot	iner	See Section 7 for information on safe handling. See Section 8		
sections		for information on personal protection equipment.		
SECTION 7: Handlin	ng and storag	e		

		··1 · · /	1	1 1 1	XX 7
7.1. Precautions for safe	Ensure good vent			-	
handling	personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not				
	ingest. Keep away from open flames, hot surfaces and				
	sources of ignition. Take measures to prevent the build up of				
	electrostatic charge.				
7.2. Conditions for safe	Keep containers		sed in a dry,	cool (5-8°	C) and
storage, including any	well-ventilated p				
incompatibilities	ignition or oxidiz	ing agent	s. Containers	s, which are	e opened,
	must be carefully resealed and kept upright to prevent				
	leakage. <u>sep</u>				
7.3. Specific end use(s)	Apart from the us			on 1.2 no o	ther
	specific uses are	stipulated	•		
SECTION 8: Exposure controls/	nersonal protecti	ion			
8.1. Control parameters					
Exposure limit values		Limit value	e - Eight hours	Limit value	- Short term
T		ppm	mg/m ³	ppm	mg/m ³
	Australia	1	1,2	2	2,5
	Austria	0,5	0,6	0,5	0,6
		0,5	0,0		
	Belgium			0,3	0,38
	Canada - Ontario			1	
				1,5 (1)	
	Canada - Québec			2 (1)	3 (1)
	Denmark	0,3	0,4	0,3	0,4
	Finland	0,3	0,37	1 (1)	1,2 (1)
	France	0,5		1	
	Germany (AGS)	0,3	0,37	0,6 (1)	0,74 (1)
	Germany (DFG)	0,3	0,37	0,6 (1)(2)	0,74 (1)(2)
	Hungary		0,6		0,6
	Ireland	2	2,5	2 (1)	2,5 (1)
	Japan	0,1		. ,	
	Latvia	· ·	0,5		
	New Zealand	0,33	2,2	1 (3)	
		(1)		1 (0)	
		0,5 (2)			
	People's Republic of China				0,5 (1)
	Poland		0,5		1
	Singapore			0,3	0,37
	South Korea	0,5	0,75	1	1,5
	Spain	- , -	-, -	0,3	0,37
	Sweden	0,3	0,37	0,6 (1)	0,74 (1)
	Sweden	0,3	0,37	0,0(1)	0,74(1)



	Switzerland		0,3	0,37	0,6	0,74
	The Netherla	ands	- , -	0,15	- , -	0,5
	USA - NIOS	H	0,016	-,	0,1 (1)	-,-
	USA - OSHA		0,75		2	
	United Kingo		2	2,5	2	2,5
	Officed Kinge		2	2,0	2	2,5
			Rema	rks		
	Canada - Or	ntario	(1) Ce	iling limit value	•	
	Canada - Qu	lébec	(1) Ce	iling limit value	•	
	Finland		(1) Ce	iling limit value	•	
	Germany (A	GS)	(1) 15	minutes avera	ge value	
	Germany (D	FG)	(2) A r	V 15 minutes a nomentary valu g/m³) should n ded.	ue of 1 ml/m ³	
	Ireland		(1) 15	minutes refere	nce period	
	New Zealan	d		iour shift (2) 12 g limit value	hour shift (3)	
	People's Re China	public of	(1) Ce	iling limit value		
	Spain		sen			
	Sweden		(1) Ce	iling limit value		
	USA - NIOS	Н	(1) Ce	iling limit value	(15 min)	
8.2. Exposure controls						
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safet practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area. Safety showers, eye wash stations and hand-washing equipment should be available.			of the orking		
Eye/ face protection	Approved safety glasses. Face shield where appropriate			oriate.		
Skin/ hand protection				lothing and g		
Respiratory protection	Where risk assessment shows it is necessary, use a du		dust mask			
Environmental experiment	type or breathing apparatus. For details see Section 6.					
Environmental exposures controls	For details	see se	ection 6.			
SECTION 9: Physical and chemic	al properti	es				
9.1. Information on basic physical			perties			
a) Appearance		Form:	liquid; (Color: clear		
b) Odour		punge	nt			
c) Odour Threshold		0.1 ppm (Range: 0.02-0.5 ppm) (below				
		observed toxicological effects) No data available				
d) pH		No da	ta availa	able		



e) Melting point/freezing point		No data available		
f) Initial boiling point and boiling range		> 93 °C (199.4 °F)		
g) Flash point		64 °C (147 °F) - closed cup		
h) Evaporation rate		No data available		
i) Flammability (solid, gas)		No data available		
j) Upper/lower flammability or e limits	explosive	Upper explosion limit: 73 %(V) (910g/m ³) Lower explosion limit: 7 %(V) (87g/m ³)		
k) Vapour pressure		69 hPa (52 mmHg) at 37 °C (99 °F)		
l) Vapour density		22.7 – 26.7 hPa (17-20 mmHg) at 20 °C (68 °F) 1.04 - (Air = 1.0)		
m) Relative density		1.016 g/cm3 at 20 °C (68 °F)		
n) Water solubility		Freely soluble		
	Junator	log Kow: 0.35		
o) Partition coefficient: n- octanol	/water	395 °C (1 013.25 hPa)		
p) Auto-ignition temperature		No data available		
q) Decomposition temperature				
r) Viscosity		2.083 - 2.835 mPa s		
s) Explosive properties		No data available		
t) Oxidizing properties	Γ	No data available		
9.2 Other information				
Hazardous chemical reactions:	Risk of explosion in contact with: nitric acid, hydrogen peroxide, nitromethane, performic acid, peracetic acid, phenol, nitrogen dioxide (180 °C).			
The substance polymerize in contact with:	alkalies, nitrides, polymerization initiators			
The substance can react dangerously with:	Strong oxidizing agents, potassium permanganate, magnesium carbonate, sodium hydroxide, perchloric acid + aniline, hydrochloric acid			
SECTION 10: Stability and reacti	vity			
10.1. Reactivity		ents, such as alcohols, amines or acids, either		
	catalyze the polymerization of formaldehyde or react with it to form methylol compounds or methylene derivatives.			
10.2. Chemical stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure			
10.3. Possibility of hazardous	Risk of explosion in contact with: nitric acid, hydrogen			
reactions	peroxide, nitromethane, performic acid, peracetic acid,			
	phenol, nitrogen dioxide (180 °C).			
10.4. Conditions to avoid		ne and sparks		
10.5. Incompatible materials	-	idizing agents, phenol, potassium		
	• •	anate, magnesium carbonate, sodium hydroxide,		
10 (Hazardau-	perchloric acid + aniline, hydrochloric acid (strong acids)			
10.6. Hazardous decomposition products	Formic acid, methanol, carbon dioxide, Carbon monoxide, formaldehyde			
		nyut		
	1			

SECTION 11. Toxicological infor	mation				
SECTION 11: Toxicological information 11.1. Information on toxicological effects					
Acute toxicity	LD50 oral (rat): 100 mg/kg;				
Acute toxicity					
	LD50 oral (male Wistar rat): 640 mg/kg;				
	LC50 inhalation (rabbit): 270 μ L/kg;				
	LC50 inhalation (Wistar rat): < 463 ppm				
	Irritation data: eye (rabbit) 75µg; severe;				
	Investigated as a tumorigen, mutagen and reproductive				
	effector				
	No human data available				
Skin corrosion/irritation	Irritant – corrosive (exposure time dependent effect)				
Serious eye damage/irritation	Irritant – corrosive (exposure time dependent effect)				
Respiratory or skin sensitization	Sensitizing to skin and respiratory system.				
	Formaldehyde can induce and aggravate asthma in mice.				
Germ cell mutagenicity	Mutagenic effects possible from formaldehyde, the				
	decomposition product of paraformaldehyde.				
Carcinogenicity	Paraformaldehyde/formaldehyde are suspected				
	carcinogens.				
Reproductive toxicity	Reproductive effects possible from formaldehyde, the				
1 2	decomposition products of paraformaldehyde.				
STOT-single exposure	No data available				
STOT-repeated exposure	Oral exposure: drinking water (rat): local effects in the				
	stomach $(0.19\%; > 82 \text{ mg/kg/d});$ no effects $(0.026\%; 15-21)$				
	mg/kg/d)				
	Skin:				
	No effects (mice): 200 μ L of 1% formaldehyde/ twice				
	weekly/60 weeks;				
	Hyperplasia of the epidermis: 200 µL of 10% formaldehyde/				
	twice weekly/60 weeks				
Aspiration hazard	No data available				
SECTION 12: Ecological information	tion				
12.1. Toxicity	LC50 - 96h - fish - 10-100 mg/L				
12.1. I UXICILY	LC50 - 96h - fathead minnow: 24.1 mg/L (flow-through);				
	LC50 - 96h - bluegill: 0.10 mg/L (flow-through);				
12.2. Persistence and	EC50 - 96h - water flea: 20 mg/L				
	Readily biodegradable.				
degradability	Not persistent in the environment.				
	When released into the air, formaldehyde is expected to				
	be readily degraded by reaction with photochemically				
	produced hydroxyl radicals, be readily degraded by				
	photolysis, be readily removed from the atmosphere by				
	dry and wet deposition and have a half-life of less than 1				
	day.				
12.3. Bioaccumulative potential	Due to the distribution coefficient n-octanol/water an				
	accumulation in organisms is not expected.				

Safety Data Sheet (according to 1907/2006/EC, Article 31)
Revision: 2.4 Revision date: 02/April/2021

12.4. Mobility in soil	Based on log Kow = 0.35 formaldehyde is expected to have very high mobility in soil (SRC). Formaldehyde gas adsorbs on clay minerals to a degree at high gas
	concentrations, which is an important quality in its use as a soil fumigant. In addition, formaldehyde may interact with humic substances in soil resulting in decreased mobility.
	When released into the soil, formaldehyde is expected to leach into groundwater. When released into water, formaldehyde is expected to readily biodegrade and is not
	expected to evaporate significantly. Utilizing the Japanese MITI test, 91% of the Theoretical BOD was reached in 2 weeks indicating that
	biodegradation is an important environmental fate process in soil (SRC).
12.5. Results of PBT and vPvB assessment	Not considered as PBT or vPvB
12.6. Other adverse effects	
SECTION 13: Disposal considera	ations

13.1. Waste treatment methods	
Product / Packaging disposal:	No data available
Waste codes / waste designations	
according to LoW:	
13.1.2 Waste treatment-relevant	Dispose of in compliance with all local and national
information:	regulations. Contact a licensed waste disposal company.
	Dispose of this material and its container to hazardous or
	special waste collection point.
13.1.3 Sewage disposal-relevant	Do not allow undiluted or un-neutralized formalin to
information:	reach sewage water or drainage ditch. All effluent
	releases that may contain formalin must be directed to a
	wastewater treatment plant.
13.1.4 Other disposal	No data available
recommendations:	
SECTION 14: Transport informa	ition
14.1. UN number	Not subject to the requirements of ADR, ADN, IMDG or
	IATA regulations

14.1. UN number	Not subject to the requirements of ADR, ADN, IMDG or
	IATA regulations
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	Not applicable
14.7. Transport in bulk	Not applicable
according to Annex II of	
MARPOL73/78 and the IBC	
Code	



SECTION 15: Regulatory information		
15.1. Safety, health and	All components of this product are on the ECHA public inventory.	
environmental	Listed in the Australian Inventory of Chemical Substances (AICS)	
regulations/legislation	Labelling according to Regulation (EC) No 1272/2008.	
specific for the substance	This safety datasheet complies with the requirements of	
or mixture	Commission Regulation (EU) 2015/830.	
15.2. Chemical safety	No Chemical Safety Assessment has been carried out for this	
assessment	substance/mixture by the supplier.	
SECTION 16: Other information		
Only trained personnel should use this material.		
contained herein is accurate. However, neither Cytodelics AB, nor any of its subsidiaries assumes		
any liabilities whatsoever for the accuracy or completeness of the information contained herein.		
Final determination of suitability of any material is the sole responsibility of the user. All materials		
may present unknown hazards and should be used with caution. Although certain hazards are		
described herein, we cannot guarantee that these are the only hazards that exist.		
Additional information		
ECHA information on registered substances		
http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances		
OSHA		
https://www.osha.gov/OshDoc/data General Facts/formaldehyde-factsheet.pdf		
OECD eChemPortal		
http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en		
IFA GESTIS database on hazardous substances		
http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp		
IARC (WHO)		
http://monographs.iarc.fr/ENG/Monographs/vol100F/mono100F-29.pdf		