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Australian Government

Department of Health

Therapeutic Goods Administration

Office of Laboratories and Scientific Services

Operations: F	IPLC Manual
Procedure	HPLC - 01 - General HPLC - WORKSHEET
Written	S22
Authorised	s22
Date issued	DD/MM/YYYY
Revision #	7

HPLC - 01 - General HPLC - WORKSHEET

TEST DETAILS			
TEST NAME		IgG SE-HPLC	
METHOD REFERENCE	HPLC – 10 -	- Immunoglobulin SE-HPLC – SO	P revision#6
METHOD MODIFICATIONS		This worksheet is in draft.	
(if any)			
MODIFICATIONS APPROVED BY:			
NAME OF ANALYST	22	TEST DATE	19/01/17

BUFFERS AND SOLUTIONS	
SOLUTIONS	BATCH No:
MOBILE PHASE (pH 6.9 ± 0.1) – 2 L 9.746 ± g di-sodium hydrogen orthophosphate dihydrate, Na ₂ HPO ₄ .2H ₂ O 3.482 ± g sodium dihydrogen orthophosphate monohydrate, NaH ₂ PO ₄ .H ₂ O 23.376 ± g sodium chloride, NaCl In 2000ml ddH2O	175AN17-1
COLUMN WASH SOLUTION A (pH 3.0 ± 0.1) – 250mL 17.755 ± g sodium sulphate, Na ₂ SO ₄ Make to 200ml with ddH2O, pH to 3.0, make up to 250ml	17 SAN 17-2
COLUMN WASH SOLUTION B -250 mL $1.218 \pm g$ di-sodium hydrogen orthophosphate dihydrate, Na ₂ HPO ₄ .2H ₂ O $0.435 \pm g$ sodium dihydrogen orthophosphate monohydrate, NaH ₂ PO ₄ .H ₂ O Make to 200ml with ddH2O, add 50ml of acetonitrile	17 JAN 17 - 3
COLUMN STORAGE SOLUTION – 200mL 20ml methanol Make up to 200ml with ddH2O	/
Sodium Chloride Solution (0.9%) 0.9 g sodium chloride, NaCl Dissolve in 100 mL of distilled water	17JAN 17 -4

Record Details	HPLC worksheet - Normal IgG - 170100091	, 170100092, 1608003191,	1608003192
Last Editor	s22	Edit Date	16/01/2017 3:30 PM
Print Date	16/01/2017 4:18 PM		Page 1 of 8

PIPETTES USED AND EXPIRY DATES

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HPLC setup

Column compartment temp: 21 ± 10 °C

Sample compartment temp: 6 ± 4 °C

Pump flowrate: 0.5 ml/min Sample injection volume: 10 µl

Column (RP/SE/IEX/other)

Detection: UV 280nm (16nm) Ref 360nm

(100nm)

Run time: 60 min +

TSKgel 3000SW, 600x7.5 mm (Cat#: 05103) or TSK gel 3000 SWxl

Isocratic /

Gradient

300x7.8mm (Cat#: 08541) columns are suitable.

Gradient setup:

Column# 40, 013, 104, 145, 152

10% methanol Column storage condition

Sample set sequence

Injection #	Sample name	Number of injections
	Pre-sample sequence	
1	Blank	1
2	Reference standard	3

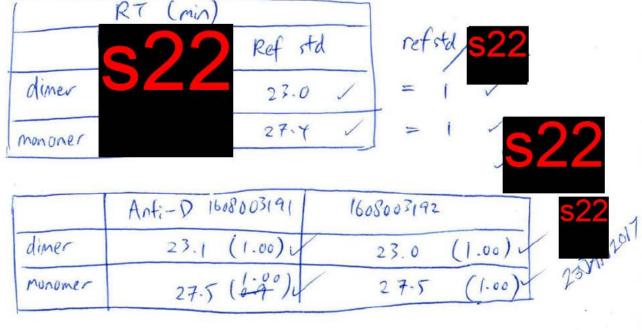
	Sumpre sequence		
s22			
5	Anti-D - 1608003191	3	
6	Anti-D - 1608003192	3	
	Post sample sequence		
7	Reference standard	3	
8	Blank	1	
Tota	al number of injection	20	

NAME AND CODE	BATCH NO:
EDQM Human Immunoglobulin (molecular size)	BRP Batch 1.2
ULF 3-19I	
<	

REFERENCE MATERIAL PREPARATIONS AND CALCULATIONS	
BlankddH20- MP	
Reference standard - 100 mg/ml (dilute using ddH2O) Assigned potency - 700ml/vial 100 mg/ml dilute to 40 mg/m	l
Reconstitute each vial with 7.0ml of ddH2O Assigned potency – 700ml/vial Reconstitute each vial with 7.0ml of ddH2O W 0.9% Nacl	
Storage – 4C for 2 weeks, -80C for 12 months	ATT Wal
- 200 pl of 160 mg/ml	2554
Storage - 4C for 2 weeks, -80C for 12 months - 200 pl of 160 mg/ml Add 300 pl of 0.97. No	ael
ie. 20 mg/0.5ml	
70	

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PARAMETERS	LIMITS	RESULTS	COMMENTS
Reference s	tandard (n= 6)		
RSD (System precision) eak area for the monomer peak of the ference preparation from triplicate	s47(1)(b)	07.	rounded to
ections at the start and at the end, eacketing samples.			(0.5%) DASS /
ative retention time (RRT) he dimer to the monomer peak	s47(1)(b)	0.84/	= 23.034 = 1
STEEDER STEEDE S	es (n= 3)		2.7.710
tive retention time (RRT) e dimer to the monomer peak relative to	s47(1)(b)	1 /	PASS V
ak area for the monomer peak of the exerce preparation from triplicate		0%	intragan
ctions			17000091



Sample criteria acceptable p. 822 23/01/17

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SAMPLE DETAI	LS		
SAMPLE NAME	Human Anti-D Rho (IgG) – 625IU	Immunoglobulin –	Human Immunoglobulin G
LIMS No:	1608003191		
BATCH No:	3690850044	EXPIRY:	08/08/2018

SAMPLE DILUTIONS, CALCULATIONS and DATA

Initial Conc.	Vol. sample	Vol. diluent	Final Conc.	DF	Inj. Vol.
17mg/ml			40 mg/ml		10 01
(CaA)					235

Dilute sample to 40 mg/ml using 0.9% sodium chloride

DATA LOCATIONS

Hard copies of Empower reports YES D17-56318 Data location in TRIM attached?

PARAMETERS	LIMITS	RESULTS	COM	IMENTS
Purity		manument dim	er)	
IgG Monomer and Dimer (Area B)	s47(1)(b	97 %	PA	35 /
Impurity				
Aggregates (Area A)		2%	PA	95 /
Fragments (Area C)		N.D	/ 01	Ct .

SAMPLE RESULTS:

PASS

□ FAIL

Signature of analyst:

Date: 23 /01 / 17

Checked by: ...

Date: 23/JAN/2017

Entered in LIMS by:.....

Date: 23 / 01 / (7



Australian Government

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Office of Laboratories and Scientific Services

Operations	Biochemistry – Forms							
Procedure	Forms - Reagent Preparation Record							
Written	\$22							
Authorised	\$22							
Date issued	20/06/2014							
Revision #	3							

Reagent Name	: Mobile	Final Volume: 2_0					
Prepared by:	Date:		Expiry Date:	Batch #: eg.	LB010CT09-1	Storage Temperature:	
Compo	nent	Manufacturer	Batch#	Required Amount	Measured Amount	Balance / Pipette LIMS #	Final Cond (%, mM, etc)
Na. HPO4. Sodium phosph dihydate	ate dibasic	Sigma-aldri	ch 52872520	9.7469	9.7489	32126	
Nattapout Sodium phosp munohydrate NaCl	rate monubasi	Signa-aldo W=137.79g	L SLBD 7295V	1 3.4829	3.4799	32126	
(sodium chle	ride) Mi	Merck N= 58.44g1	K457562044	41 23.376g	23.3739	32126	/
pH A stment	Target pH: Initial pH: Adjusted with: HO / HNO ₃ / H ₂ SO ₄ / H ₃ PO ₄ NaOH / KOH / Other: Final pH: pH Electrode LIMS#: (circle) 8165 / 32109						t: (circle)
Filtration (circle):	None	0.45µm	0.2µm	Other:			
Other Comments:		P					
		Attach I	Balance P		17- J	an-2017 0 + 9.74 0 + 3.47 0 + 23.37	13:22:19 89 99 89

Last Editor Print Date

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Edit Date

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Office of Laboratories and Scientific Services

Operations	Biochemistry – Forms
Procedure	Forms - Reagent Preparation Record
Written	\$22
Authorised	\$22
Date issued	20/06/2014
Revision #	3

Reagent Name:	Coluan	hash so	lation A (1	G SEHMU)	Final Volume	= 250 ml	-	
Prepared by:	Date: 17/01/17		Expiry Date:	Batch #: eg. I	LB010CT09-1	Storage Temperature:		
Compor	Component		er Batch#	Required Amount	Measured Amount	Balance / Pipette LIMS #	Final Conc (%, mM, etc)	
(Sodium sulphate) MVK 142.0tg/mol			K460854375	4 17.7559	[7.753g	32126		
pH A stment	Target pH:	Initial pH:	Adjusted with: HC / HNO ₃ / H ₂ SO ₄ NaOH / KOH / Othe		-07 /	H Electrode LIMS#	f: (circle)	
Filtration (circle):	None	0.45µm	0.2µm	Other:	g			
Other Comments:		A)						
Attach E						17-Jan-2017 008: N 17	14:39:32 .753g	



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Operations	Biochemistry – Forms							
Procedure	Forms - Reagent Preparation Record							
Written	S22							
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Date issued	20/06/2014							
Revision #	3							

Reagent Name:	Column	wash solution	16 (196	SEHPLC)	Final Volume:	250 ml	_
Prepared by:	Date: 17/01/17		piry Date:		LB010CT09-1 JAN7-3	Storage Temperature:	
Compon	ent	Manufacturer	Batch#	Required Amount	Measured Amount	Balance / Pipette LIMS #	Final Conc (%, mM, etc)
Sodium hospl dihydrate		Sigma-aldre MW=177-999	4 SZB92520	1.2189	1-2/29	32126	
Nath POX			SLBD7295V	0.4559	0.4789	32126	/
Acetoritale		W=137-99g/ Merck	1826530614	soml	sonl	Measuring	/
p Astment	Target pH:	Initial pH:	Adjusted with: HCI / HNO ₃ / H ₂ SO ₄ / NaOH / KOH / Other:			H Electrode LIMS#	(circle)
Filtration (circle):	None	0.45µm	0.2µm	Other:			
Other Comments:							
		Attach E	-, im-2.)			Jan-2017 N + 1-21 N + 0.43	

Record Details Last Editor Print Date R14 814225 Forms - Reagent Preparation Record

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Procedure

Written Authorised



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Department of Health

Biochemistry - Forms

Therapeutic Goods Administration

Forms - Reagent Preparation Record

Office of Laboratories and Scientific Services

Date	issued	20/06	/2014								
Revis	ion#	3									
Reagent Nam	e: _ <i>S</i> ₆	dium (ig6 St	de EHP	Solution CC)	(0.0	1 70 w/v)	Final Volu	me:_	100 pl	
Prepared by:	Da		/17_	A.*.	oiry Date:	Ва	-22	LB010CT09		Storage Temp	erature:
Comp	onent		Manufactu	rer	Batch#		Required Amount	Measure Amount		Balance / Pipette LIMS #	Final Conc (%, mM, etc)
Nacl (sodium	chloride	e)	Merck		K45.956 204	44	0.99	0.898)	32126	
		_									•
p A stment	Target	t pH:	Initial pH:	1	Adjusted with: HCI / HNO ₃ / H ₂ St		PO ₄	Final pH:	130000	Electrode LIMS#	(circle)
Filtration (circle):	None)	0.45µm		0.2µm	Ot	her:		_		
Other Comments:					9						
			Attac		alonna I		-	一) 「	7-3	Jan-2017 : N + O.8	
				1. 9	an a	1.858	9				

Record Details Last Editor Print Date

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