

## **SPUTUM PROCESSING WORKSHEET**

ID NUMBER:		FORM CODE: <b>SPW</b> VERSION: 2.0 9/12/11	Visit Number SEQ#
		processing the sputum	0b) Initials
	Entire Sample	. grams	
Min   Min   Min   Min   Min   Moo   Exc   So   Mucus '   Nur   Moo   Spa   Lar,   Sm   Der   Diff   Cle   Wh	derate essive ency: tery coid ulent (puss) iplugs": nerous derate number arse ge all ase/flocculent use opacity plugs: ar ite ow/Tan		

6) General Notes/Comments:

ID NUMBER:					DE: <b>SPW</b> 2.0 9/12/11	Visit Number		SEQ#		
6a) Sputum pro	ocessing m	ethod								
	•	ree aliquots th	•		,					
Method 2	(Immediat	ely process wi	th EDT/	۸)		2 → <mark>Go t</mark>	o Item 1	0		
7) Processing	y Whole S	ample using t	the Muc	cin Me	thod (Con	nplete onl	y for n	nethod	1)	
Mucin Sample	Weight	(g)								
Weighing tray	a)									
Whole sputum	b)									
Guanidine vol.	c)									
*Sample size she less than 0.500g microcentrifuge t	, 0.5mL gu	anidine reductio	n buffer	added	. Sample tra					ded. If
8) Processing	j Microbio	logy sample	(Compl	ete or	nly for met	hod 1)				
Micro Sample	е	Weight (g)								
Microcentrifuge										
Whole sputur	m b)									
*Weigh an empty the weight of spu	y microcent utum and st	rifuge tube. Zer ore in -80°C. Sh	o the ba nip samp	lance. ble on c	Measure 0. Iry ice.	250g of wh	ole spu	tum san	nple.	Record
9) Processing	j Viscoela	stic Sample (	Comple	ete on	ly for meth	nod 1)				
Viscoelastic	Sample	Weig	ıht (g)							
Microcentrifu	a)									
Whole Sp	b)									
*Weigh an empty be achieved. Tra Sample can be t	nsfer samp	le to microcenti	rifuge tul	be. Red	•	•		•		
10)Processing	y Whole S	ample using I	EDTA:							
Weight of Centri	fuge tube			a)						
Weight of Sputur	m			b)			_	_		

c)

1% sputolysin volume

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Volume EDTA added to r	nake 0.1	% sputolysi	n d)	d)									
Time of 15 minute tumble	)		e)	e)									
Volume EDTA added after	er 15 min	ute tumble	f)	f)									
Time of 5 minute tumble			g)	g)									
*Weigh a 50mL centrifuge tube. Zero the balance. Add remaining sample to centrifuge tube and record weight in grams. Add 0.1% Sputolysin in mLs equal to 4X selected sample weight in grams (For example, 2g of sample would need 8mL of 0.1% sputolysin). Place sample on tumble for 15 minutes. Dilute sample with EDTA. Use the same volume that was added above. Continue to tumble for an additional 5 minutes. After 5 minute tumble, sample is filtered through 53µm nylon mesh into new 50mL tube. Cells are spun down at 500Xg for 10 minutes.  11)Supernatants for Nucleotides and Cytokines													
Supernatants		Nur	nber of aliquots	V	Volume stored								
Nucleotides		a)		b)									
Cytokines		c)		d)									
*If sample volume is greater than 8mL, obtain 4 1 mL aliquots for nucleotides, 4 1 mL aliquots for cytokine When there is a limited volume, start by getting a nucleotide sample between 200-500uL, one cytokine sample at 200uL. If there is sample leftover after that, then continue alternating between nucleotide and cytokine aliquots (i.e. 200-500uL for nucleotides, 200uL for cytokines) until finished. Nucleotide and Cytokines are stored in -80°C freezer.													
Volume of Hanks added			e)										
12)Cell Counts													
Cell Counts:		# Dead	#Live		Total								
a) Square 1	1)		2)	3	3)								
b) Square 2	1)		2)	3	3)								
c) Square 3	1)		2)	3	3)								
d) Square 4	1)		2)	3	3)								
e) Totals:	1)		2)	2) 3)									
*Count live (clear) and dead (blue) cells in each 4 corner grids. Count BEC's, but exclude RBC's and squamous.													
TCC= (sum 4 grids/4 X 2	X 10 <sup>4</sup> X	vol. sample	f)	f)									
=TCC/weight of selected	sample		g)	g)									
Viability = (live cells/total	cells) X 1	100%	h)										
13)Cytospins:													
		# slides s	tored										

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H	lema 3 stained	d slid	les		а	ı)													
lf d	Slides are mad possible, fix a lrying, stained <b>4)Cells for F</b>	ınd s slide	tain es ar	2 s	lide	s in	He	ma	3 sta	ain (1	0 dips	in each) ar	nd fi	x 2 slide	s in	95%	% ethanol	. Af	
T	rizol cell pellet	ţ																	

\*Cells are spun down at 500Xg for 5 minutes, HBSS's is discarded and 1mL Trizol is added. Add 10uL of GGD. The number of cells left in the Trizol pellet will be equal to the TCC (12f) minus the total number of cells used to make slides in 13.