

SUIT-RP2: FAO-CI substrate control

2016-01-25

D + mt: 1D 2Oct 3Mtit 3c (3NADH) 4P 5G 6S 7U 8Gp 9Rot 10Ama 11Tm 12Azd

<i>E</i>					7U	8Gp	9Rot	10Ama	11Tm	12Azd	
<i>P</i>	1D	2Oct	3M+c	4P	5G	6S					
<i>L</i>											
	ROX	FAO	FAO	CI &FAO	CI &FAO	CI&II &FAO	CI&II &FAO&Gp	CII &Gp	ROX	CIV	ROX

Sample mt=Isolated mitochondria, RP2-Imt:

O2k and DatLab file: P___(A / B) 2016-								
Experimental code:								
Operator:								
MiR: MiR05+CtlCr								
Event	Mark name	LPE	Final conc. 2 ml O2k	Stock [mM]	Comment	Tit. [µl]	A	B
MiR								
O2			~200 µM					
D			7.5 mM	500		30		
mt	1D	ROX						
Oct	2Oct	<i>P</i>	0.5 mM	100		10		
M.05	3M.05	<i>P</i>	0.05 mM	50		2		
M.1	3M.1	<i>P</i>	0.1 mM	50		2		
M2	3M2	<i>P</i>	2 mM	400		9.5		
c	3c	<i>P</i>	10 µM	4		5		
NADH	3NADH	<i>P</i>	2.8 mM	280	NADH only if $FCF_c > .1$	20		
P	4P	<i>P</i>	5 mM	2000		5		
G	5G	<i>P</i>	10 mM	2000		10		
S	6S	<i>P</i>	50 mM	1000		100		
U	7U	<i>E</i>	Δ0.5 µM	1	CCCP	Δ1 µl		
Gp	8Gp	<i>E</i>	10 mM	1000		20		
Rot	9Rot	<i>E</i>	0.5 µM	1		1		
Ama	10Ama	ROX	2.5 µM	5		1		
O2			~200 µM					
As			2 mM	800		5		
Tm	11Tm	<i>E</i>	0.5 mM	200	~20 min	5		
Azd	12Azd	ROX	≥100 mM	4000	~10 min	100		
O2	13Azd	ROX	~200 µM		-> 50 µM			