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**SUIT reference protocol RP1-Imt**

**O2k high-resolution respirometry**

2016-03-25

PM +mt: NFSGpTm\_1PM 2D 3c 4U 5G 6S 7Oct 8Rot 9Gp 10Ama 11Tm 12Azd

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *E* | **4U** | **5G** | **6S** | **7Oct** | **8Rot** | **9Gp** | **10Ama** | **11Tm** | | **12Azd** |
| *P* | **2D+c** |  |  |  |  |  |  | |  |  |
| *L* | **1PM** |  |  |  |  |  |  | |  |  |
|  | N | N | NS | NFS | S | SGp | ROX | | Tm | ROX |
|  | CI | CI | CI&II | CI&II  &FAO | CII | CII  &GpDH | ROX | | CIV | ROX |

| **O2k and DatLab file: P**\_\_\_( A / B ) 2016-  **Experimental code:**  **Operator:**  **MiR:**  MiR05+CtlCr | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Event** | **Mark name** | **State** | **Final conc. 2 ml O2k** | **Stock**  **[mM]** | **Comment** | **Tit.**  **[µl]** | **A** | **B** |
| **MiR** |  |  |  |  |  |  |  |  |
| **O2** |  |  | ~200 µM |  |  |  |  |  |
| **P** |  |  | 5 mM | 2000 |  | 5 |  |  |
| **M** |  |  | 2 mM | 400 |  | 10 |  |  |
| **mt** | **1PM** | PM*L* |  |  |  |  |  |  |
| **D** | **2D** | PM*P* | 2.5 mM | 500 |  | 10 |  |  |
| **c** | **3c** | PM*P*c | 10 µM | 4 |  | 5 |  |  |
| **NADH** | **3NADH** | PM*P*cNADH | 2.8 mM | 280 | NADH only if *FCFc* >.1 | 20 |  |  |
| **U** | **4U** | PM*E* | Δ0.5 µM | 1 | CCCP | Δ1 |  |  |
| **G** | **5G** | PGM*E* | 10 mM | 2000 |  | 10 |  |  |
| **S** | **6S** | PGMS*E* | 50 mM | 1000 |  | 100 |  |  |
| **Oct** | **7Oct** | PGMSOct*E* | 0.5 mM | 100 |  | 10 |  |  |
| **Rot** | **8Rot** | S*E* | 0.5 µM | 1 |  | 1 |  |  |
| **Gp** | **9Gp** | SGp*E* | 10 mM | 1000 |  | 20 |  |  |
| **Ama** | **10Ama** | ROX | 2.5 µM | 5 |  | 1 |  |  |
| **As** |  |  | 2 mM | 800 |  | 5 |  |  |
| **Tm** | **11Tm** | Tm*E* | 0.5 mM | 200 | ~20 min | 5 |  |  |
| **Azd** | **12Azd** | ROX | ≥100 mM | 4000 | ~10 min | 100 |  |  |
| **O2** | **13Azd** | ROX | ~200 µM |  | > 50 µM |  |  |  |

**Sample mt=Isolated mitochondria, RP1-Imt:**