

Materials List for

Determination of Mitochondrial Respiration and Glycolysis in *Ex Vivo* Retinal Tissue Samples

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jove.com/video/62914

Materials

| Name | Company | Catalog Number | Comments |
|---|-----------------------|----------------|--|
| 1X PBS | Thermo Fisher | 14190-144 | |
| 2-Deoxy glucose (2-DG), 500 mM stock solution | Sigma | D6134 | Dissolve in Seahorse XF DMEM medium, prepare ahead of time |
| 30-gauge needle | BD Precision Glide | 305106 | |
| Antimycin A, 10 mM stock solution | Sigma | A8674 | Dissolve in DMSO, prepare ahead of time |
| Bam15, 10 mM stock solution | TimTec | ST056388 | Dissolve in DMSO, prepare ahead of time |
| Biopsy puncher, 1 mm | Integra Miltex | 33-31AA | |
| Cell-Tak | Corning Life Sciences | CB40240 | |
| CO2 asphyxiation chamber | | | |
| Dissection forceps-Dumont #5 | Fine Science Tools | 11251-10 | Stright tip |
| Dissection forceps-Dumont #7 | Fine Science Tools | 11274-20 | Curved tip |
| Dissection microscope | | | |
| DMSO | Sigma | D2438 | |
| Graefe forceps | Fine Science Tools | 11051-10 | Curved, Serrated tip |
| Microscissors | Fine Science Tools | 15004-08 | Curved tip |
| NaOH solution, 1 M | Sigma-Aldrich | S8263 | Aqueous solution, prepare ahead of time |
| Rotenone, 10 mM stock solution | Sigma | R8875 | Dissolve in DMSO, prepare ahead of time |
| Seahorse calibration medium | Agilent | 100840-000 | |
| Seahorse XF 1.0 M glucose | Agilent | 103577-100 | |
| Seahorse XF 100 mM pyruvate | Agilent | 103578-100 | |
| Seahorse XF 200 mM glutamine | Agilent | 103579-100 | |
| Seahorse XF DMEM medium | Agilent | 103575-100 | pH 7.4, with 5 mM HEPES |
| Seahorse XFe24 Islet Capture FluxPak | Agilent | 103518-100 | Containing Sensor Cartridge and Islet Capture microplate |
| Seahorse XFe24, Extra Cellular Flux Analyzer | Agilent | | |

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|------------------------------------|---------------|-------|---|
| Sodium bicarbonate solution, 0.1 M | Sigma-Aldrich | S5761 | Aqueous solution, prepare ahead of time |
| Superfine eyelash brush | Ted Pella | 113 | |