

APPENDIX

1. Mini prep plasmid isolation by alkaline lysis method

Solution I

| Glucose | 50mM |
|----------------|------|
| Tris-Cl (pH 8) | 25mM |
| EDTA (pH 8) | 10mM |

Solution was stored at 4°C.

Solution II

| NaOH | 0.2N |
|------|----------|
| SDS | 1% (W/V) |

Buffer was prepared freshly, just before the experiment.

Solution III

| Potassium acetate | 3M |
|-------------------|----|

pH of the solution III was adjusted to 5.5 using Glacial acetic acid and subsequently stored at 4°C.

TE buffer

| Tris Cl (1M, pH 8) | 10mM |
|--------------------|------|
| EDTA (0.5M, pH 8) | 1mM |

50X TAE buffer

| | |
|-----------------------------|----------|
| Tris | 242g/L |
| Glacial acetic acid (17.4N) | 57.1ml/L |
| 0.5M EDTA (pH 8) | 100ml/L |

Buffer was stored at room temperature.

2. SDS-PAGE and western blot**10X electrode buffer**

| | |
|-----------|--------|
| Tris | 30g/L |
| Glycine | 144g/L |
| SDS (20%) | 25ml/L |

pH of the buffer was adjusted to 8.3 using HCl and subsequently stored at room temperature.

Western blot buffer

| | |
|------------------|-----------|
| Tris | 25mM |
| Glycine | 192mM |
| Methanol (99.9%) | 20% (v/v) |

Methanol was added freshly, just before the use.

Western blot 10X TBS

| NaCl | 80g/L |
|------|-------|
| KCl | 2g/L |
| Tris | 30g/L |

pH of the solution was adjusted to 8.0 using HCl and subsequently stored at 4°C.

Western blot blocking buffer

| Fat free milk | 5% (w/v) |
|---------------|----------|
| 10X TBS | 100ml/L |

Solution was prepared freshly, just before the use.

Western blot wash buffer (1X TBST)

| 10X TBS | 100ml/L |
|----------|---------|
| Tween 20 | 1ml/L |

Buffer was prepared freshly, just before the use.

3. Nuclear fragmentation buffer

Buffer A

| | |
|---------------------|---------|
| 100mM HEPES, pH 7.9 | 100ml/L |
| KCl | 0.74g/L |
| MgCl ₂ | 0.3g/L |
| Sucrose | 116g/L |
| Glycerol | 100ml/L |

Buffer was stored at 4°C.

Buffer B

| | |
|------------------|---------|
| 0.5M EDTA (pH 8) | 6ml/L |
| 0.5M EGTA (pH 8) | 400µl/L |

Buffer was stored at 4°C.

4. Drosophila media

| | |
|----------------------|-------------|
| Jaggery | 8.1 g |
| Gram Sattoo | 6.0 g |
| Agar | 1.5 g |
| Yeast extract | 0.9 g |
| 15% Methyl paraben | 1.6 ml |
| Orthophosphoric acid | 100 µl |
| Propionic acid | 250 µl |
| Water | Upto 100 ml |

5. List of reagents and kits used in this study

| | |
|---|------------|
| 100bp DNA ladder | NEB |
| 30% acrylamide/bis solution | Biorad |
| Acetic acid | Merck |
| Agar | SRL |
| Agarose | SRL |
| Ammonium Persulphate | SRL |
| Ampicillin | Himedia |
| Antimycin A | Sigma |
| Bafilomycin | Sigma |
| Bradford reagent | Biorad |
| BSA | Sigma |
| Calcium chloride | SRL |
| Chloroform | SRL |
| Chloroquine | Sigma |
| DAPI | Biorad |
| DCFDA | Sigma |
| DMEM-F12 media | Gibco |
| DMSO | SRL |
| DNA extraction and PCR purification kit | Bioline |
| DNA loading buffer | BioBharati |
| DNaseI | Thermo |
| ECL | Biorad |
| EcoRI | NEB |
| EDTA | SRL |
| EGTA | SRL |
| Ethanol | Himedia |

| | |
|--|------------|
| Ethidium bromide | SRL |
| Fat free milk | Biorad |
| FBS | Gibco |
| FCCP | Abcam |
| Filter paper | Biorad |
| Fluoroshield mounting media | Abcam |
| Formaldehyde | Sigma |
| Glucose | SRL |
| Glycerol | SRL |
| Glycine | Merck |
| Go Taq Green master mix | Promega |
| HCl | Merck |
| HEPES | Sigma |
| iScript Reverse Transcription Supermix | Biorad |
| Isopropanol | SRL |
| Kanamycin | SRL |
| Lipofectamine 2000 | Thermo |
| Luperox | Sigma |
| Luria Bertani Agar | Himedia |
| Luria Bertani Broth | Himedia |
| Magnesium chloride | SRL |
| Mammalian protein extraction reagent | Thermo |
| Maxi prep plasmid isolation kit | Qiagen |
| Methanol | Himedia |
| Methyl paraben | Sigma |
| Mitochondria isolation kit | Pierce |
| Mitosox Red | Invitrogen |

| | |
|----------------------------|--------------------------|
| Mitotracker | Invitrogen |
| MTT reagent | SRL |
| NAC | Sigma |
| NAD/NADH assay kit | Abcam |
| Nicotinamide riboside | Santa Cruz Biotechnology |
| Nimodipine | Abcam |
| Nitrocellulose membrane | Biorad |
| Normal donkey serum | Abcam |
| Nuclease free water | Promega |
| Oligomycin | Sigma |
| OptiMem media | Gibco |
| Ortho phosphoric acid | Merck |
| PBS | Himedia |
| Penicillin-Streptomycin | Gibco |
| PMSF | SRL |
| Ponceau | Abcam |
| Potassium acetate | SRL |
| Potassium chloride | SRL |
| Pre stained protein ladder | Abcam |
| Propionic acid | Merck |
| Protease inhibitor | Thermo |
| Protein loading buffer | BioBharati |
| Purezol | Biorad |
| Resveratrol | Sigma |
| RNase | SRL |
| Rotenone | Sigma |
| SDS | Merck |

| Sodium arsenite | Sigma |
|---------------------|---------|
| Sodium butyrate | SRL |
| Sodium chloride | SRL |
| Sodium hydroxide | Merck |
| Sucrose | Amresco |
| SYBR Green Supermix | Biorad |
| T4 DNA ligase | NEB |
| TEMED | Sigma |
| TNF alpha blocker | abcam |
| Tris | Amresco |
| Triton X 100 | Amresco |
| Trypsin-EDTA | Gibco |
| Tween-20 | Merck |
| XhoI | NEB |
| Yeast extract | Sigma |