

Materials List for

Using Immunofluorescence to Detect PM_{2.5}-induced DNA Damage in Zebrafish Embryo Hearts

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Materials

| Name | Company | Catalog Number | Comments |
|-----------------------------------|-------------------------------|----------------|---|
| 8-OHdG Antibody | Santa Cruz Biotechnology, USA | sc-66036 | Primary antibody |
| Analytical balance | Sartorius, China | BSA124S | |
| BSA | Solarbio, Beijing, China | SW3015 | For blocking |
| DAPI | Abcam, USA | ab104139 | For nuclear counterstain. |
| DMSO | Solarbio, Beijing, China | D8371 | |
| Fluorescence microscope | Olympus, Japan | IX73 | For imaging fluorescence signals/ |
| Goat Anti-Rabbit IgG Cy3 | Carlsbad, USA | CW0159 | Secondary antibody |
| Goat Anti-Rabbit IgG FITC | Carlsbad, USA | RS0003 | Secondary antibody |
| N-Acetyl-L-cysteine(NAC) | Adamas-Beta, Shanghai, China | 616-91-1 | |
| Orbital shaker | QILINBEIER, China | TS-1 | |
| Paraformaldehyde | Sigma, China | P6148 | Make 4% paraformaldehyde for fixation. |
| Phosphate Buffered Saline | HyClone, USA | SH30256.01 | Prepare 0.1% Tween in PBS for washing. |
| PM _{2.5} sampler | TianHong, Wuhan, China | TH-150C | For 24-hr uninterrupted PM _{2.5} sampling. |
| Re-circulating aquaculture system | HaiSheng, Shanghai, China | | The zebrafish was maintained in it. |
| Soxhlet extractor | ZhengQiao, Shanghai, China | BSXT-02 | For organic components extraction. |
| Stereomicroscope | Nikon, Canada | SMZ645 | For heart dissection from zebrafish embryos. |
| Tricaine methanesulfonate (MS222) | Sigma, China | E10521 | To anesthetize zebrafish embryos |
| Tween 20 | Sigma, China | P1379 | |
| γH2AX Antibody | Abcam, USA | ab26350 | Primary antibody |