

Materials List for:

# Raising the Mexican Tetra *Astyanax mexicanus* for Analysis of Post-larval Phenotypes and Whole-mount Immunohistochemistry

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## Materials

| Name   | Company                       | Catalog Number | Comments   |
|--|-------------------------------|----------------|--|
| methylene blue   | Kordon                        | B016CBHZUS     | antifungal   |
| heater   | Finnex                        | 4711457836017  | 100W Digital Control Heater  |
| airstone   | Lee's Aquarium & Pet Products | 10838125202    | disposable air stone   |
| salt   | Instant Ocean                 | 51378014021    | Sea Salt   |
| nursery container  | IPC                           | 21545-002      | 40 oz or 1.5 L clear containers  |
| transfer pipette   | VWR                           | 414004-002     | plastic bulb pipettes  |
| compact culture system (CCS) starter kit with <i>Brachionus plicatilis</i> (L-type) rotifers | Reed Mariculture              | na             | fish food  |
| RGcomplete   | APBreed                       | 817656016572   | 32 oz bottle of rotifer food   |
| Programmable Auto Dosing Pump DP-4   | Jebao                         | DP-4           | automatic feeder for rotifers  |
| Tricane-S  | Western Chemical              | MS 222         | fish anesthetic  |
| sodium bicarbonate   | Sigma-Aldrich                 | S5761-500G     | for tricane solution   |
| nylon mesh strainer  | HIC (Harold Import Co.)       | 735343476235   | 3-inch diameter  |
| Formalin solution, neutral buffered, 10%   | Sigma-Aldrich                 | HT501128-4L    | fixative   |
| 10X PBS  | Invitrogen                    | AM9625         | buffer, dilute to 1X using distilled water   |
| Triton-x 100   | Sigma-Aldrich                 | T8787-250ML    | detergent  |
| sodium azide   | Sigma-Aldrich                 | S2002-25G      | anti-bacterial   |
| bovine serum albumin   | Sigma-Aldrich                 | A9647-100G     | blocking reagent   |
| glass vial with screw-top cap 4mL  | Wheaton                       | 224742         | staining vial  |
| plastic mesh screen for breeding tank  | Pentair                       | N1670          | Cut into a rectangle 6mm larger on all edges than the dimensions of the bottom of the breeding tank. Cut a 6mm square from each corner of the rectangle. Bend the edges of the screen down along all four edges. Place a pair of 6mm vinyl-coated disk magnets on either side (top and bottom) of the mesh on each corner. The screen should be as snug as possible to the sides of the tank. The screen can be removed from the tank with a metal fish net. |
| vinyl-coated disk magnets  | Kjmagnets                     | D84PC-AST      |  |
| New Life Spectrum Thera-A pellet fish food   | New Life International        | na             | Adult fish food. A list of retailers for this product is available on the company website  |

| <b>Antibodies</b>                                 |                   |          |        |
|---|-------------------|----------|--------|
| insulin antibody from guinea pig                  | Dako              | A0564    | 1:200  |
| glucagon antibody from sheep                      | Abcam             | ab36215  | 1:200  |
| acetylated tubulin antibody from mouse            | Sigma             | T6793    | 1:500  |
| HuD/HuC antibody from mouse                       | Life Technologies | A-21271  | 1:500  |
| nitric oxide synthase (nNOS) antibody from rabbit | Abcam             | ab106417 | 5µg/mL |
| choline acetyltransferase (ChAT) from rabbit      | Abcam             | ab178850 | 1:2000 |
| serotonin (5HT) from rabbit                       | Immunostar        | 20080    | 1:500  |