CLAIMS

[Claim 1]

A test fish holding device comprising:

a flexible holder including a holding groove extending along a front-rear direction on an upper surface side thereof and internally holding a test fish loaded from an upper opening portion,

wherein the holder has a slit extending along the front-rear direction in a bottom portion of the holding groove and exposing an abdomen of the test fish held inside the holding groove on a lower surface side thereof,

the slit is formed in a cutout shape having a width of approximately 0 mm in a left-right direction, and

the width of the slit is widened by generating a tensile force from an inside toward an outside on the lower surface side of the holder.

[Claim 2]

The test fish holding device according to Claim 1,

wherein the holder is formed to have a groove forming portion in which the holding groove is formed, and a pair of side wing portions extending from a lower portion side to both sides of both left and right side portions of the groove forming portion.

[Claim 3]

The test fish holding device according to Claim 1 or 2,

wherein a lower surface of the holder is formed in a planar shape, and

the slit is provided to be open on the lower surface of the holder.

[Claim 4]

The test fish holding device according to Claim 1 or 2,

wherein the holding groove is formed to have a substantially isosceles triangular cross-sectional shape in which an opening portion is a vertex.

[Claim 5]

A test fish treatment method for performing a predetermined treatment on an abdomen of a test fish by using the test fish holding device according to Claim 1 or 2, the method comprising:

holding the test fish inside the holding groove of the holder; and

performing the predetermined treatment on the abdomen of the test fish held inside the holding groove through the slit from the lower surface side of the holder.

[Claim 6]

The test fish treatment method according to Claim 5, further comprising

performing an intraperitoneal administration, by using a test fish intraperitoneal administration tool including a syringe filled with a target substance and an injection needle through which the target substance supplied from the syringe flows out from a tip, for administering the target substance into an abdominal cavity of the test fish through the injection needle, as the predetermined treatment, in a state where the injection needle is inserted into the abdomen of the test fish held inside the holding groove of the holder,

wherein the injection needle is provided with an insertion depth guide portion in an outer peripheral portion of the injection needle, the insertion depth guide portion coming into contact with an abdominal surface of the test fish when the injection needle is inserted into the abdomen of the test fish at a predetermined reference insertion depth during the intraperitoneal administration.

[Claim 7]

The test fish treatment method according to Claim 6, wherein

the insertion depth guide portion in the outer peripheral portion of the injection needle is provided in a form where the insertion depth guide portion is parallel to the abdominal surface of the test fish when the injection needle is inserted into the abdomen of the test fish at a predetermined reference insertion angle during the intraperitoneal administration.