VITELLOGENIN (VTG)
USEFUL BIOMARKER FOR ESTROGEN-MEDIATED ENDOCRINE DISRUPTION

NEW Standard VTG ELISAs:
- TE1035 TECO® Perch
- TE1037 TECO® Cyprinid
- TE1042 TECO® Multi Species
- TE1047 TECO® Salmonid

REACH VTG ELISAs:
- TE1040 TECO® REACH Cyprinid
- TE1043 TECO® REACH Medaka

Ultra Sensitive VTG ELISAs:
- TE1046 TECO® Ultra Sensitive Cyprinid
- TE1049 TECO® Ultra Sensitive Salmonid

Non-Invasive, Non-Destructive Options – Room Temperature ELISA – Cost-Saving Configuration – Quality Controlled

- Biomarker for estrogenic activity of natural and anthropogenic substances in sewage
- Assay developed and manufactured under ISO 13485 & ISO 9001 quality standards
- State-of-the-art kits include:
  - Standard and control material allowing for up to 2 runs per test kit
  - Quick and easy sample thaw procedure
  - Stable standards and controls
  - Low inter- and intra-assay CVs
- Vitellogenin ELISA proficiency testing program available

Research Use Only in the US & Canada
VITELLOGENIN (VTG)

4 Vitellogenin ELISA Assays Validated for 37 Different Fish Species*

<table>
<thead>
<tr>
<th>Perch</th>
<th>Cyprinid</th>
<th>Multi-Species</th>
<th>Salmonid</th>
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</thead>
<tbody>
<tr>
<td>Perch</td>
<td>Carp</td>
<td>Medaka</td>
<td>Salmon</td>
</tr>
<tr>
<td>Tilapia</td>
<td>Goldfish</td>
<td>Cod</td>
<td>Trout</td>
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<tr>
<td>Bluegill</td>
<td>Zebrafish</td>
<td>Flounder</td>
<td>Common Whitefish</td>
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<tr>
<td>Fathead Minnow</td>
<td>Australian Rainbowfish</td>
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</tbody>
</table>

*Inquire about complete cross-reactivity with different species.

For Testing with 3 Different Sample Types**

<table>
<thead>
<tr>
<th>Product</th>
<th>Serum/Plasma</th>
<th>WBH/Liver</th>
<th>Mucus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perch Vitellogenin ELISA</td>
<td>•</td>
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<td>•</td>
</tr>
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<td>Cyprinid Vitellogenin ELISA</td>
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<td>Multi-Species Vitellogenin ELISA</td>
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</table>

**Different sample types can be tested on the same plate at the same time.

Easily Measure VTG from Mucus

- Non-invasive, non-destructive sampling using TECO®-exclusive mucus collection swabs
- Easier to collect from smaller fish
- Defined matrix free of lymphatic fluid contamination
- Ability to use smaller fish for testing or monitoring purposes
- Repeat sampling option allows for individual recording of induction kinetics
- Pre-exposure testing enables determination of handling (stress)-related impact on VTG induction
- Sample stability for up to 4 hours after extraction
- Assay performed at room temperature