

## Medaka vitellogenin standard

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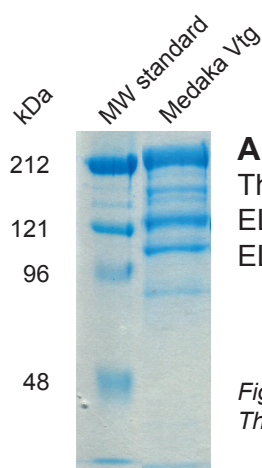
Each vial normally contains 3-5 µg purified and lyophilised medaka vitellogenin (Vtg). The content of the vial will vary from batch to batch, see exact amount on the label of each vial. The Vtg was quantified by amino acid analysis.

### Source of vitellogenin

Japanese medaka (*Oryzias latipes*) induced with 17β-estradiol.

### Purification procedure

Medaka Vtg was purified from whole body homogenate of 17β-estradiol-induced fish by ion exchange chromatography and gel filtration (1).



### Applications

The lyophilised medaka Vtg may be used as a positive control in western blot and ELISA. Freshly reconstituted Vtg may also be used as standard in a quantitative ELISA.

Figure 1: SDS-PAGE with 2.75 µg Vtg applied per well. The gel was stained with Coomassie Blue.

### Storage

Lyophilised vitellogenin can be stored at 4°C. We recommend reconstitution in 300-1000 µl cold buffer (e.g. PBS based buffers) immediately before use. Do *not* freeze and thaw if the Vtg is to be used as a quantitative standard. For use only as a positive control the solution may be aliquoted and stored at -20°C. Avoid repeated freezing and thawing.

*Note: If the solution of vitellogenin after reconstitution appears turbid, add 1-2 µl of 0.2 M EDTA, pH 7.7 until the solution becomes clear.*

### For research use only

### References

1) Brion, F., Nilsen, B.M., Eidem, J.K., Goksøyr, A. and Porcher, J-M. (2002) *Environ Toxicol Chem.* 28, 1699-1708