

Datasheet: 7010-2650

Description:	SHEEP ANTI 17-BETA-ESTRADIOL
Specificity:	17-BETA-ESTRADIOL
Other names:	E2, OESTRADIOL
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.25 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/5000 - 1/40,000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species

Broad

Species Cross Reactivity

Reacts with: Sturgeon, Anole lizard, Sunfish, Horned lizard, Agamid lizard, Zebra finch
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

5.0 mg/ml

Immunogen	Estradiol conjugated to bovine serum albumin						
RRID	AB_619700						
Specificity	<p>Sheep anti 17-beta-estradiol polyclonal antibody recognizes 17 β-estradiol, a mammalian estrogenic hormone. 17 β-estradiol is produced in the ovaries, placenta and testis and has a role in normal sexual development and the regulation of the menstrual cycle.</p> <p>The following cross reactivities of Sheep anti 17-beta-estradiol have been observed:</p> <table> <tr> <td>17-beta Oestradiol</td> <td>100%</td> </tr> <tr> <td>Oestrone</td> <td>14%</td> </tr> <tr> <td>Oestriol</td> <td>5%</td> </tr> </table> <p>Aldosterone, Cortisol, Corticosterone, DHEA, Deoxycorticosterone, Pregnenolone, Progesterone, 17OH-P and Testosterone all <0.01%</p>	17-beta Oestradiol	100%	Oestrone	14%	Oestriol	5%
17-beta Oestradiol	100%						
Oestrone	14%						
Oestriol	5%						
References	<ol style="list-style-type: none"> 1. Qu, Q.Z. <i>et al.</i> (2010) The relationships between gonad development and sex steroid levels at different ages in <i>Acipenser schrenckii</i>. J App Ichthyol 26: 1-5. 2. Lovern, M.B. and Wade, J. (2003) Sex steroids in green anoles (<i>Anolis carolinensis</i>): uncoupled maternal plasma and yolking follicle concentrations, potential embryonic steroidogenesis, and evolutionary implications. Gen Comp Endocrinol. 134: 109-15. 3. Magee, S.E. <i>et al.</i> (2006) Plasma levels of androgens and cortisol in relation to breeding behavior in parental male bluegill sunfish, <i>Lepomis macrochirus</i>. Horm Behav. 49: 598-609. 4. Warner, D.A. <i>et al.</i> (2007) Maternal nutrition affects reproductive output and sex allocation in a lizard with environmental sex determination. Proc Biol Sci. 274: 883-90. 5. Wack, C.L. <i>et al.</i> (2008) Effects of sex, age, and season on plasma steroids in free-ranging Texas horned lizards (<i>Phrynosoma cornutum</i>). Gen Comp Endocrinol. 155:589-96. 6. Lampen, J. <i>et al.</i> (2017) ZENK induction in the zebra finch brain by song: Relationship to hemisphere, rhythm, oestradiol and sex. J Neuroendocrinol. 29 (12) e12543. 7. Leary, C.J. <i>et al.</i> (2018) Assessing the links among environmental contaminants, endocrinology, and parasites to understand amphibian declines in montane regions of Costa Rica. PLoS One. 13 (1): e0191183. 						
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>						
Guarantee	12 months from date of despatch						
Health And Safety	Material Safety Datasheet documentation #10040 available at:						

Information <https://www.bio-rad-antibodies.com/SDS/7010-2650>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M438069:250321'

Printed on 21 Mar 2025

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)