

ARBOR ASSAYS™
Interactive Assay Solutions™



ISWE

**Corticosterone
Mini-Kit**

Catalog Number ISWE007

Species Independent

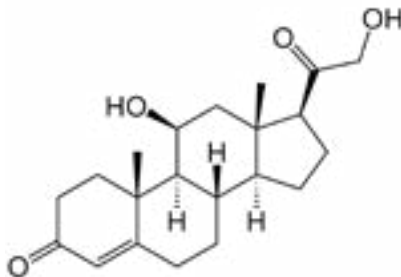
Official Supplier
to ISWE



Please read this insert completely prior to using the product.
For research use only. Not for use in diagnostic procedures.

MINI-KIT PRINCIPLE

The ISWE Corticosterone Mini-Kit is specifically designed to measure corticosterone and/or its metabolites present in a variety of samples and species for wildlife conservation. The end user must provide or coat their own anti-sheep IgG secondary antibody coated plates in addition to providing assay buffer, wash buffer, substrate and stop solution. On page 3, there is a list of Related Materials we supply that are used in our kits.



Three materials are supplied in the ISWE-Kit:

1. The ISWE Corticosterone sheep antibody was raised to the 3-CMO derivative of corticosterone. The antibody has been titered and diluted in a buffer containing protein, detergents and Kathon preservative (see below) to ensure its stability. It is at a nominal "50X" concentration*.

NOTE: The 50X Concentrate Sheep Antibody to Corticosterone cannot be directly coated onto plates for EIA use. It is unpurified sheep serum diluted in a buffer containing proteins and detergents. The antibody WILL NOT bind to uncoated microtiter plates effectively as the antiserum proteins and the dilution buffer both contain high concentrations of non-specific proteins that will coat any plate surface.

2. The ISWE Corticosterone-Peroxidase conjugate is synthesized from 3-CMO derivative of corticosterone and has been diluted in a stabilizing solution (see below) to ensure long term stability. It is at a nominal "50X" concentration*.
3. The Corticosterone Standard is synthetic steroid in a stabilizing solution containing buffer and organic solvent. It is supplied at 1,000 ng/mL for dilution into the assay buffer used for your assay.

* The nominal "50X Concentration" the ISWE Antibody and Conjugate are QC tested using Arbor Assays Corticosterone EIA kit reagents from K014-H1 and K014-H5. The ISWE Antibody was diluted in Assay Buffer, from X065, at 1:50 and the ISWE Conjugate diluted in Conjugate Diluent, X076, at 1:50. The assay utilized 100 uL sample, 50 uL antibody and 50 uL conjugate added to donkey anti-sheep IgG coated plate, X061-1EA. Assay incubation time was 2 hours shaking at room temperature, followed by washing and addition of 100 uL of TMB Substrate. After 30 minutes

SUPPLIED COMPONENTS

ISWE Corticosterone Antibody Concentrate

A 50X Concentrate sheep polyclonal antibody specific for corticosterone diluted in a buffer with proteins, detergents and preservatives.

6 mL

Catalog Number C263-6ML

ISWE Corticosterone Conjugate Concentrate

A 50X Concentrate corticosterone-peroxidase conjugate in a special stabilizing solution.

6 mL

Catalog Number C264-6ML

Corticosterone Standard

Corticosterone at 1,000 ng/mL in a special stabilizing solution.

1 mL

Catalog Number C265-1ML

STORAGE INSTRUCTIONS

All components of this kit should be aliquoted into vials upon first thaw. Avoid repeated freeze thaw cycles. Store at -20°C until the expiration date of the kit.

RELATED MATERIALS

Description	Catalog No.
Donkey anti-Sheep IgG Coated Plate	X061-1EA
Assay Buffer 5x Concentrate	X065-110ML
HRP Conjugate Diluent	X076-300ML
Wash Buffer 20x Concentrate	X007-125ML
TMB Substrate	X019-55ML
Stop Solution	X020-25ML
Dissociation Reagent	X017-5ML/-25ML
Kathon Preservative	X129-25ML
Plate Coating Buffer 20x Concentrate	X108-100ML
Blocking Buffer 10x Concentrate	X109-250ML
Donkey anti-Sheep IgG, Affinity Purified	A010-10MG/-25MG/-50MG/-100MG
Arbor Assays ISWE Plate Coating Course	Contact us for details

PRECAUTIONS

This kit utilizes a peroxidase-based readout system. Buffers, including other manufacturers' Wash Buffers, containing sodium azide will inhibit color production from the enzyme. Make sure all buffers used for samples are **azide free**.

PROTOCOLS

Please Note: The dilution of the ISWE Mini-Kit antibody and conjugate are such that when diluted 1:50 fold in Assay Buffer and Conjugate Diluent and added to an Arbor Assays antibody coated plate, using 100 μL of sample or standards, 50 μL of conjugate and 50 μL of antibody in a 2 hour room temperature incubation with shaking (we recommend shaking around 700–900 rpm) followed by TMB as substrate, these reagents will generate above 1.0 OD at 450 nm. **YOUR RESULTS MAY VARY DEPENDING ON A NUMBER OF VARIABLES.**

The sheep anti-corticosterone is supplied at a 50X concentration. An aliquot should be brought to room temperature and diluted one part with 49 parts of a suitable assay buffer. If your assay buffer has protein, detergent and a preservative in it, the diluted antibody will be stable for greater than 1 month at 4°C. Please see Related Materials on page 3 for a suitable Assay Buffer.

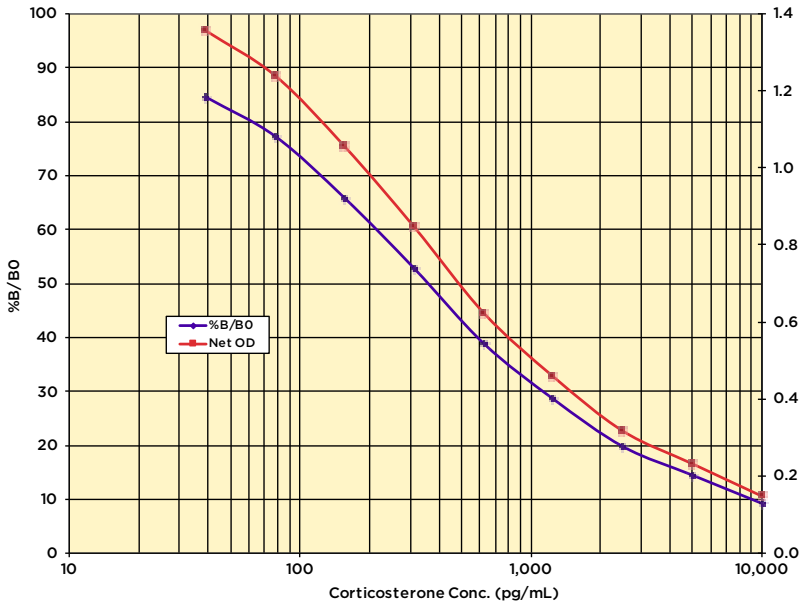
The corticosterone-HRP conjugate is supplied at a 50X concentration. An aliquot should be brought to room temperature and diluted one part with 49 parts of a suitable diluent or assay buffer. If you wish to store the diluted conjugate for greater than 1 month at 4°C you should dilute it in a suitable conjugate diluent. Please see Related Materials on page 3 for a suitable Conjugate Diluent.

The corticosterone standard stock is provided in a solution that contains an organic solvent. Prerinse the pipet tip several times to ensure accurate delivery.

TYPICAL DATA USING ARBOR ASSAYS COMPONENTS

Sample	Mean OD	Net OD	% B/B0	Corticosterone Conc. (pg/mL)
NSB	0.075	0.000	---	-
Standard 1	0.223	0.148	9.23	10,000
Standard 2	0.307	0.232	14.47	5,000
Standard 3	0.392	0.317	19.77	2,500
Standard 4	0.533	0.458	28.56	1,250
Standard 5	0.698	0.623	38.85	625
Standard 6	0.921	0.846	52.76	312.5
Standard 7	1.130	1.055	65.79	156.25
Standard 8	1.314	1.239	77.27	78.13
Standard 9 (optional)	1.431	1.356	84.57	39.06
B0	1.679	1.604	100.00	0
Sample 1	0.308	0.223	14.5	4,463
Sample 2	0.528	0.453	28.22	1,251

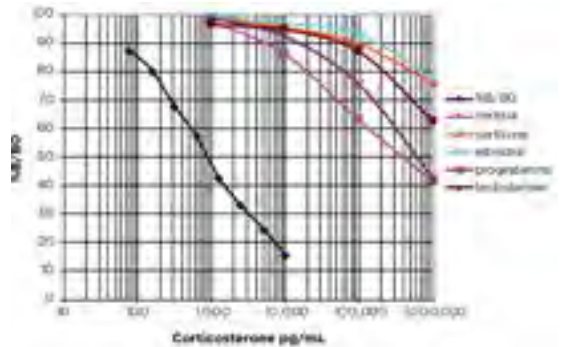
Always run your own standard curve for calculation of results. Do not use this data.



CROSS REACTIVITY

The following cross reactants were tested in the assay and calculated at the 50% binding point:

Steroid	Cross Reactivity (%)
Corticosterone	100%
Cortisol	0.22%
Progesterone	0.14%
Testosterone	0.09%
Cortisone	0.08%
17 β -Estradiol	0.03%



We expect 1-Dehydrocorticosterone and Desoxycorticosterone to cross react about 10-20% based on our K014-H kits which use a similar antibody.

SAMPLES

The kit has been tested in a diverse range of species. These are:



Southern Hairy-Nosed
Wombat, Urine



Brush-Tailed Possum,
Fecal



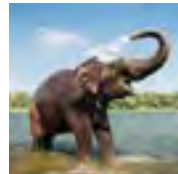
Black Rhino,
Fecal



Snow Leopard,
Fecal



African Lion,
Fecal



Asian Elephant,
Fecal

LIMITED WARRANTY

Arbor Assays warrants that at the time of shipment this product is free from defects in materials and workmanship. This warranty is in lieu of any other warranty expressed or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

We must be notified of any breach of this warranty within 48 hours of receipt of the product. No claim shall be honored if we are not notified within this time period, or if the product has been stored in any way other than outlined in this publication. The sole and exclusive remedy of the customer for any liability based upon this warranty is limited to the replacement of the product, or refund of the invoice price of the goods.

CONTACT US

We welcome your questions and comments regarding our products.

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OFFICIAL SUPPLIER TO ISWE

Arbor Assays and the International Society of Wildlife Endocrinology (ISWE) signed an exclusive agreement for Arbor Assays to supply ISWE members with EIA kits for wildlife conservation research.

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