



## Zearalanol [HRP] (DAGB355)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Specificity</b>	Each conjugate comprises antigen covalently bound to horseradish peroxidase and is suitable as a tracer in immunoassay development.
<b>Species</b>	N/A
<b>Conjugate</b>	HRP
<b>Applications</b>	IA
<b>Format</b>	The conjugate is supplied as a concentrate. Dilute as required and use working strength conjugate immediately after dilution
<b>Preservative</b>	None
<b>Storage</b>	2 - 8°C for up to 3 months / -20°C for long term storage

### BACKGROUND

<b>Introduction</b>	Zeranol (alpha-zearalanol) is a non-steroidal estrogen agonist. It is a mycotoxin, derived from fungi in the Fusarium family, and may be found as a contaminant in fungus-infected crops. It is 3-4x more potent as an estrogen agonist than the related compound zearalenone. Zeranol is approved for use as a growth promoter in livestock, including beef cattle, in the United States. In Canada, it is approved for use in beef cattle only. Its application is not approved for use in the European Union. Recently the group of Bern and collaborator has shown the inhibiting action of isoflavones on the growth of breast cancer cells induced by xenoestrogens such as o,p"-DDT and alkylphenols. Such studies have suggested phytoestrogens could be inhibiting the hormonal action of the natural estrogens.
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