



**SYNDEL**

LHRH ANALOGUE

DESCRIPTION:

LHRH ANALOGUE is a synthetic preparation of the following analogue of a Luteinizing Hormone-Releasing Hormone (LHRH):

D-Ala<sup>6</sup>, des-Gly<sup>10</sup>- LHRH ethylamide

USES:

LHRH ANALOGUE is rapidly becoming an acceptable substitute for naturally occurring gonadotropic hormones as a means of inducing spawning in mature fish. Evidence from China and, most recently, from the Pacific Northwest, would suggest the analogue is a potent, non-species specific gonadotropin releasing hormone.

It has been used in both salmonid and ciprinid species in equivalent microgram quantities, thus can be used at a cost considerably lower than that of pituitary hormone products.

Ovulation, in salmonids, has been advanced by up to 6 weeks before normal spawning. In one instance, an 8 week advancement was achieved when the LHRH regime was coupled with photoperiod manipulation.

LHRH analogue has been used in research on other species of fish as well.

STORAGE:

Shelf-life--Powder:

one year plus at room temperature; refrigeration may be preferable.

Liquid:

Still under investigation; keep frozen to prolong shelf life as a solution.

...continued...

SHIPPING:

LHRH ANALOGUE is packaged in glass serum vials.

DOSAGE:

Experimental evidence, with some fish, shows that dosages as low as 10.0 micrograms/kg of body weight have been successful. Many regimes have been attempted, all with varying degrees of success.

FOR SALMONIDS: A good starting point would be any of the following:

DAY 0 (PRIMER)	DAY 3
a) 2.0 mg ADP/kg	0.02 mg LHRHa/kg
b) 0.5 mg LPE/kg	0.02 mg LHRHa/kg
c) 0.005 mg LHRHa/kg	0.015 mg LHRHa/kg

DAYS 7-14: strip eggs and/or sperm

Lower levels of LHRH ANALOGUE are encouraged as minimum threshold levels have not yet been determined.

FOR CIPRINIDS: Results have been erratic, as witnessed by production problems in The Peoples' Republic of China over the past few years. However, evidence accumulating in Canada suggests that other factors must be considered for predictable results.

PREPARATION:

LHRH ANALOGUE can be dissolved in either distilled water or a saline solution (0.6-0.9%). Make up only enough stock solution as will be required for each day's dosage.

REMARKS:

FISH SHOULD BE ANESTHETIZED AND WEIGHED PRIOR TO INJECTION.

MDSLHRHA.WP