Use of Reproductive Hormones

1.0 Purpose and Scope:

To provide guidance for the use of Hormones in the laboratory and animal facility environment. Various reproductive hormones are used at UW-Madison in animal research for a variety of research applications. Substances include but are not limited to Gonadotropin releasing hormone, Human chorionic gonadotropin, Testosterone, Estradiol, Progesterone, Prolactin, and Prostaglandin F2a.

2.0 Definitions:

Teratogenic: a substance or agent that causes developmental malformations  
Carcinogenic: cancer-causing substance or agent

3.0 Guidance:

Reproductive hormones are considered a Reproductive Toxin and/or a Teratogen.

4.0 Precautions:

The following information can be used to complete the Safety section of your animal protocol.

1. Containment preparation – (Containment equipment required for the preparation of the chemical):  
   (Select both options and include additional information for Other)  
   - Fume Hood  
   - Other: if powder form is used then preparation will be done in a fume hood and safety glasses will be worn in addition to standard PPE.

2. Containment animals – (Containment equipment required for chemical administration and handling animals after exposure to the chemical): (Select the following)  
   - No special containment needed

3. PPE needed - (for handling live animals, carcasses or animal waste/dirty bedding):  
   (Select all of the following)  
   - Exam gloves – nitrile  
   - Safety glasses/goggles  
   - Lab coat or disposable gown

4. Waste Disposal: (Select the following)  
   - No special precautions needed for waste/dirty bedding

5. Carcass disposal: (Select the following)  
   - No special precautions needed for disposal use facility standard method.

6. Chemical human risk: (Add the following for the appropriate hormone)
Most reproductive hormones are potentially toxic as teratogens and carcinogens. Pregnant and lactating women should avoid exposure to reproductive hormones.

For Estrumate (prostaglandin F2a) add the following: Estrumate is reproductive and respiratory (including asthmatics) hazard so it should be handled with extreme caution. Estrumate is readily absorbed through the skin and may cause abortion and/or bronchospasm.

5.0 Additional information:

1. For reproductive hormones used in the farm environment PPE needed includes long sleeves and nitrile/latex gloves. If fume hood is unavailable or the powder will remain in contained in a closed bottle, containment preparation should be performed in a well ventilated area.

6.0 References:

“Testosterone SDS”

“Estrogen SDS”

“Progesterone SDS”

“Prolactin SDS”

“Estrumate guidance”

7.0 Document Revisions:

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<tr>
<th>Revision Number</th>
<th>Revision Date</th>
<th>Description of Revision</th>
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<td>1</td>
<td>9/14/16</td>
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