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Serum, Blood and Body Weight Measurements in Pigs

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Abstract

Summary:

These assays are performed on all the pig models studied by the DiaComp to assess their serum chemistry and blood cell counts.

Diabetic Complications:



Cardiovascular



Retinopathy

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Neuropathy

Nephropathy



Pediatric Endocrinology



Uropathy



Wound-Healing

1 Total cholesterol

Cholesterol is measured by a commercial, automated method (ANTECH® Inc. Cary, NC).

2 Serum assays

All serum assays are measured by a commercial, automated method (ANTECH® Inc. Cary, NC).

3 Red blood cell count, White blood cell count, Hemoglobin, Hematocrit, Platelet count

White blood cell count, red blood cell count, hemoglobin, hematocrit, and platelet count are performed on EDTA anti-coagulated blood with a cell counter (Heska) calibrated for pig cells.

4 **Body weight**

Pigs are weighed on calibrated scales.

5 **Percent body fat**

The percent body fat is determined from measuring the backfat by ultrasound (Fukuda Denshi, model UF750XT) or the Swine Backfat Probe (Nasco, WI) according to the manufacturer's instructions.