



**Pfizer Animal Health**  
**Animal Genetics**  
333 Portage Road  
Kalamazoo, MI 49007-4931

**Pfizer Animal Genetics now running diagnostic tests for  
Pulmonary Hypoplasia with Anasarca**

September 29, 2009

Dear ADCA members,

We are pleased to inform you that Pfizer Animal Genetics is now offering a diagnostic test for the genetic defect Pulmonary Hypoplasia with Anasarca (PHA). PHA has been identified in American Dexter cattle and has a recessive mode of inheritance.

The gene mutation responsible for PHA has been identified, and a diagnostic test for PHA has been developed by Dr. Jon Beever at the University of Illinois. Pfizer Animal Genetics has licensed the tests and Dr. Beever has validated the tests' results.

PHA-affected calves are born dead with underdeveloped lungs (Pulmonary Hypoplasia) and swelling caused by excessive fluid retention (Anasarca). When genetically tested, affected animals have two alleles for the PHA mutation, so are termed homozygous for PHA. Heterozygous carrier animals with one copy of the allele are visually indistinguishable from PHA-free animals with two normal alleles.

Submit samples for testing and accompanying order forms directly to Pfizer Animal Genetics. Testing will be handled in the order in which samples and forms are received by Customer Service.

Please visit [http://www.pfizeranimalgenetics.com/pdf/Test\\_Request\\_Form.pdf](http://www.pfizeranimalgenetics.com/pdf/Test_Request_Form.pdf) and <http://www.pfizeranimalgenetics.com/ContactUs.aspx?type=contactus> for details on how to submit samples or to download order forms. For additional information, please contact Pfizer Animal Genetics Customer Service at 1-877-BEEF DNA (1-877-233-3362).

Sincerely,

Pfizer Animal Genetics