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## ME Calculation Now Included in Feed Results Report

Ag Health Labs has added ME to the 'Feed Results Report' that is sent out to clients when they submit feed samples for analysis. What is ME? It is an energy calculation that has been developed to estimate **Metabolizable Energy** in a feed. Metabolizable energy is an estimate of the amount of energy that is available from a feed accounting for losses of energy in the feces, urine, and gas combusted in the rumen. It is a calculated value that uses nutrient analyses that are determined by wet chemistry as well as estimated book values. The nutrient analyses used to estimate ME that are conducted by Ag Health Labs include crude protein (CP), ash, and neutral detergent fiber (NDF). The other nutrient analyses included in the determination of ME are neutral detergent insoluble crude protein (NDICP), acid detergent insoluble crude protein (ADICP), and ether extract (EE). These values (NDICP, ADICP, EE), as well as lignin, are obtained from the NRC Nutrient Requirements of Dairy Cattle (2001) handbook unless a wet chemistry analysis is requested by the client. Wet chemistry requests for NDICP, ADICP, and EE would be outsourced to CVAS Laboratories for analysis, and would be used in the final calculation to determine ME on a feedstuff. If you have more questions regarding ME or the other energy equations reported on a 'Feed Results Report' from Ag Health Labs feel free to contact us!

### Running Analyses on Previously Archived Samples

If you are looking for hay (or any other feed for that matter) to purchase, and are running a basic feed panel nutrient analysis [dry matter (DM), crude protein (CP), ash, acid detergent fiber (ADF), and neutral detergent fiber (NDF)] at Ag Health Labs we are adding an additional service to help serve you better. If you purchase feed that we have tested in our lab we would be willing to run a mineral analysis for you on that feed sample that we have archived in the lab. Just let us know! The benefit to you is that you don't have to resample the feed and submit another sample.

**Archived samples available for further testing.  
More info in first article!**

### NFTA Certified for 2010

Ag Health Feed Lab certified by the National Forage Testing Association

New Feed Submission forms available at the lab or online!  
*See Page 2*

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## **Vet Corner: DRUG RESIDUES IN MEAT**

FDA has continued to aggressively survey and occasionally find **Flunixin meglumine (Banamine/Suppressor)** residues in meat of slaughter cattle. Please

review with your employees that Flunixin is only to be administered **Intravenously (IV)**. When Flunixin is administered IV at label dosage, label slaughter and milk withdrawals should be followed. Flunixin given Intra-muscularly (IM) will cause severe inflammation which is easily identified by FDA inspectors and drug residues have been detected for at **least 1 month after injection**.

**Procaine Penicillin G (PPG)** is another drug commonly found in tissue residues. PPG is often used in an extra-label manner to achieve adequate therapeutic levels. Label dosage is only 1ml per 100 lbs of body weight of the 300,000 U/ml PPG preparation. The Food Animal Residue Avoidance Databank (FARAD) provides recommendations for appropriate slaughter withdrawals when using drugs in an extra-label (higher than label dose) manner. Please review with your veterinarian and employees how to properly use PPG and what the appropriate slaughter withdrawals should be. The following guidelines were recommended by FARAD (JAVMA, Vol 229, No. 9, November 1, 2006) for extra-label Penicillin use:

30 ml per injection site max – Larger volumes require longer withdrawals.

Depending on dosage, **slaughter withdrawal can be 21 days or longer**.

If larger doses or days of treatment are used = longer withdrawals required.

Do not give PPG Subcutaneously - Requires longer withdrawals.

Consult your veterinarian to determine exact dosing protocols and withdrawal times for your dairy.

-Fred J. Muller, DVM

### New Feed Submission Form Now Available

#### Hot Weather Sample Storage

Please be sure to keep samples out of the heat and sunlight during our hot summer weather. The integrity of the sample may be compromised if proper storage/handling procedures are neglected. This especially applies to blood, milk, and wet feed samples.

Thank you! -AHL

There is an updated version of the Feed Submission Form available now at Ag Health Labs. Pick some up the next time you stop by the lab or download a copy of it from the Ag Health Lab website. Let us know, and we can e-mail or fax a copy to you also. Please take the time to fill this form out as completely and accurately as possible. It helps the staff at Ag Health Labs immensely to make sure that the correct nutrient analyses are being conducted on each feed sample submitted. It also helps us to make sure we are sending the results to the correct people. Thanks for your cooperation!!

### Important!! Contact Information Updates

We are currently trying to update the contact information for each client at Ag Health Labs. Please let us know where (e-mail address, fax number, mail address), how (e-mail, fax, mail, phone), and who you want your results reported to. Especially let us know if a result has not been sent using the correct method or if it hasn't gone to the correct people.