

IDEXX xChek*: Creating a User-Defined Assay for the BVDV Antigen ELISA (serum and ear notch)—Overnight Assay

Creating a user-defined assay is an easy process of two tasks—editing an xChek file to allow you to create an assay, and then creating the assay within xChek.

To edit the xChek.ini file:

1. From the task bar, choose **Start> Run** and type “xchek.ini” into the text box. Click the **OK** button.
2. After the xChek.ini file opens, locate the line labeled “AllowNewAssays”.
3. If the value for that line is “0”, change it to “1”. If the value is already “1”, do not do anything.
4. From the menu bar, choose **File> Save**, and then choose **File> Exit**.

To create the assay:

1. From the task bar, choose **Start> Programs> xChek> xChek** to open the xChek program.
2. From the menu bar, choose **Database> Assays> All** to open the Assay dialog box.
3. Click the **New** button and enter “Bovine Viral Diarrhea Antigen Serum/Ear Notch Overnight” into the Name field, “BVDAGS/ENON” into the Code field, and “Unkown” into the Kit Lot field. Today’s date (mm/dd/yyyy) is automatically entered into the Expiration field.

NOTE: When you begin testing, update the information in the Kit Lot and Expiration fields with the actual kit lot number and expiration date.

New Assay

Name: Bovine Viral Diarrhea Antigen Serum/Ear Notch Overnight

Code: BVDAGS/ENON

Kit Lot: Unkown Expiration: 7/13/2006

Comment:

Basic Calculations Titers Bins

Assays

4. Click the **Basic** button and select or enter the following information for the respective fields:

| | |
|------------------------|------------------|
| Case Type: Animal | Samp Filter: 450 |
| Template: BVDvAgS Vert | Ref. Filter: 0 |
| Species: Cattle | Dilution: 0 |
| Technology: ELISA | Wells: 1 |

New Assay

Case Type: Samp Filter:

Template: Ref Filter:

Species: Dilution:

Technology: Wells:

5. Click **OK** to save the settings.
6. Click the **Calculations** button and select or enter the following information:

Formulas:

"S" Part of Ratio: Sample1 - Negative
"P" Part of Ratio: Positive - Negative
"N" Part of Ratio: None
Blocking Factor: None

First Calculation:

Variable: S/P
Positive Cutoff: 0.39
Suspect Cutoff: 0.299
Comparison: >

New Assay

Formulas

"S" Part of Ratio:

"P" Part of Ratio:

"N" Part of Ratio:

Blocking Factor:

First Calculation

Variable:

Positive Cutoff:

Suspect Cutoff:

Comparison:

Second Calculation

Variable:

Positive Cutoff:

Suspect Cutoff:

Comparison:

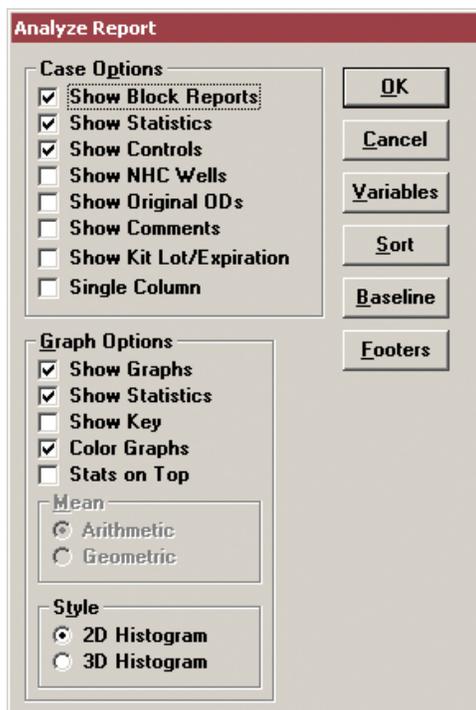
7. Click **OK** to save these settings and then click the **OK** button to save the assay to the database. You can now test for BVDvAg using the xChek Assay Management System. If you are retesting samples that are in the "gray zone" using the modified Working Detector Reagent, those samples calculations should not be done using xChek software. Please refer to the kit insert for the correct calculation to determine if samples are negative or positive.

NOTE: xChek does not evaluate controls or results for validity when you create a user-defined assay. You must evaluate the results from each assay in accordance with good laboratory practices. To evaluate your assay validity, please refer to the insert provided with the test kit.

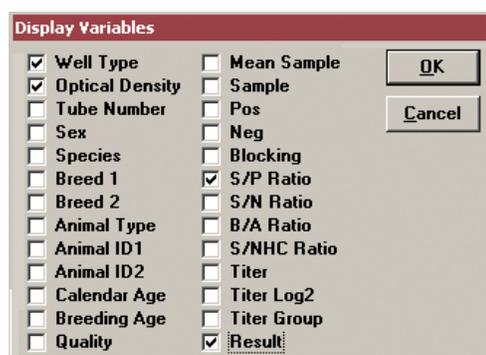
Setting Up Additional Display Variables

Only OD values are displayed in the reporting options for this user-defined assay. To set up additional display variables, follow the directions below.

1. From the xChek menu bar, choose **Reports > Analyze Cases** to open the Filter Criteria for Analyze dialog box.
2. Enter the desired search criteria and click **OK**. The Select Cases for Analyze dialog box appears.
3. Select the desired cases and click **OK**. The Analyze Report dialog box appears.



4. Click the **Variables** button to open the Display Variables dialog box.



5. Select the desired options and click **OK**. Click **OK** again to save the settings.

For more information, call IDEXX Technical Services at 1-800-548-9997 (in the U.S.) or 1-207-556-4890 (outside of the U.S.), or visit us on the Web at idexx.com

