

## IDEXX **xChek**\*: Creating a User-Defined Assay for the CHEKIT\* Classical Swine Fever Virus (CSF-Sero) Antibody Test Kit

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. Locate the section titled “[BasicGraphs]” and scroll to the end of the section.
5. Enter “CSF-Sero=11”.
6. 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 “CHEKIT CSF-Sero” into the Name field, “CSF-Sero” into the Code field and “unknown” into the Kit Lot field. Today’s date (mm/dd/yyyy) is automatically entered into the Expiration field.



The screenshot shows the 'New Assay' dialog box with the following fields and values:

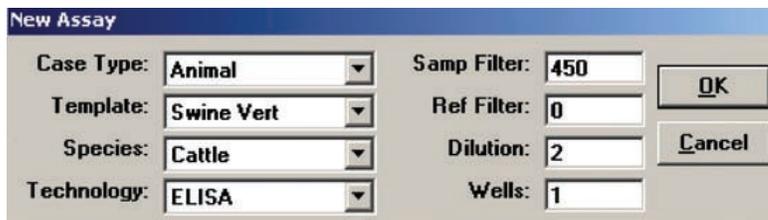
Name:	CHEKIT CSF-Sero
Code:	CSF-Sero
Kit Lot:	unknown
Expiration:	11/13/2007
Comment:	

Buttons: OK, Cancel, New, Delete, Print

Tabs: Basic, Calculations, Titors, Bins

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

Case Type: Animal	Samp Filter: 450
Template: Swine Vert	Ref. Filter: 0
Species: Cattle	Dilution: 2
Technology: ELISA	Wells: 1



The screenshot shows the 'New Assay' dialog box with the following fields and values:

Case Type:	Animal	Samp Filter:	450
Template:	Swine Vert	Ref Filter:	0
Species:	Cattle	Dilution:	2
Technology:	ELISA	Wells:	1

Buttons: OK, Cancel

**NOTE:** Due to a problem with selecting swine as the species type in versions 3.2 and 3.3 of xChek, the species used for this user-defined assay is cattle.

- Click **OK** to save the settings.
- 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: 0.4

Suspect Cutoff: 0.3

Comparison: >=

**Second Calculation:**

Variable: None

Positive Cutoff: 0

Suspect Cutoff: 0

Comparison: None

**Note:** xChek is unable to support the Value % calculation. Instead xChek will calculate an S/P value. The cutoff values have been updated to match the new calculation and the interpretation will be the same.

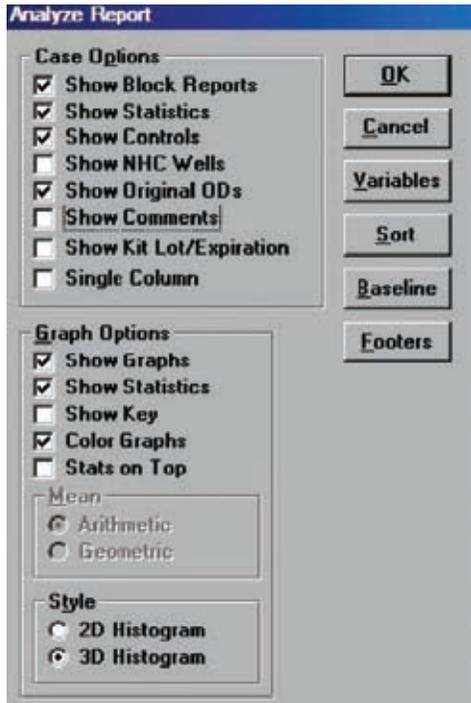
- Click **OK** to save these settings, then click **OK** again to save the assay to the database. You can now test for antibodies against classical swine fever virus using the xChek Assay Management System.

**NOTE:** xChek does not evaluate controls or results for validity when you use 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 Results section in the insert provided with this test kit.

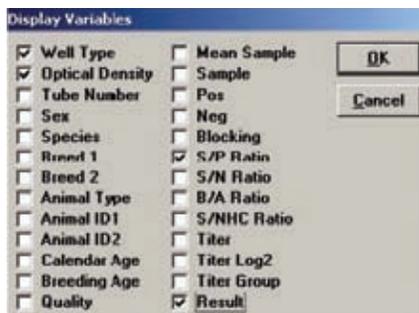
### Setting Up Additional Display Variables:

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

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