

IDEXX xChek*: Creating a User-Defined Assay for the Bovine Spongiform Encephalopathy (BSE) Antigen Test Kit, EIA

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],” scroll to the end of the section and enter “BSE=17.”
[BasicGraphs]
BSE=17
5. 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 Spongiform Encephalopathy” into the Name field, “BSE” into the Code field, and “Unknown” 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:

Code:

Kit Lot: Expiration:

Comment:

Assays

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

Case Type: Animal	Samp Filter: 450
Template: Johnes Ab Vert	Ref Filter: 620
Species: Cattle	Dilution: 5
Technology: ELISA	Wells: 1

New Assay

Case Type:

Template:

Species:

Technology:

Samp Filter:

Ref Filter:

Dilution:

Wells:

Assays

5. Click **OK** to save the settings.
6. Click the **Calculations** button and select or enter the following information:
 - "S" Part of Ratio: Sample1 - Negative
 - "P" Part of Ratio: None
 - "N" Part of Ratio: None

First Calculation	Second Calculation
Variable: S	Variable: None
Positive Cutoff : 0.120	Positive Cutoff : 0
Suspect Cutoff: 0.120	Suspect Cutoff: 0
Comparison: >=	Comparison: None

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 BSE 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.

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 US) or 1-207-856-0890 (outside of the US), or visit us on the Web at idexx.com.



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