

IDEXX **xChek***: Creating a User-Defined Assay for the CHEKIT* Trachitest Serum—Screening (pool) Enzyme Immunoassay (EIA) 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 line labeled “Basic Graphs” and scroll to the end of the section.
5. Enter “TRCHISP=17.”
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 Trachitest Serum - screening (pool)” into the Name field, “TRCHISP” 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.

The screenshot shows the 'New Assay' dialog box. The 'Name' field contains 'CHEKIT Trachitest Serum - screening (pool)', 'Code' is 'TRCHISP', 'Kit Lot' is 'unknown', and 'Expiration' is '8/15/2005'. The 'Comment' field is empty. On the right, there are buttons for 'OK', 'Cancel', 'New', 'Delete', and 'Print'. At the bottom, there are buttons for 'Basic', 'Calculations', 'Titers', and 'Bins'. The 'Basic' button is highlighted. The status bar at the bottom shows 'Assays'.

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

| | |
|---------------------|------------------|
| Case Type: Animal | Samp Filter: 450 |
| Template: IBRs Vert | Ref. Filter: 0 |
| Species: Cattle | Dilution: 4 |
| Technology: ELISA | Wells: 1 |

New Assay

Case Type: Samp Filter:

Template: Ref Filter:

Species: Dilution:

Technology: Wells:

NOTE: The CHEKIT Trachitest Serum—screening (pool) assay has a negative and a positive control configuration in the insert that is not supported by the IDEXX xChek software. The assay has been set up in xChek to have a vertical control configuration. Therefore, place negative controls in wells A1 and B1, and positive controls in wells C1 and D1.

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: 0.40

Suspect Cutoff: 0.40

Comparison: >=

NOTE: xChek does not support the Value % calculation. Instead, xChek calculates an S/P value. The cutoff values have been updated to match the new calculation and the interpretation is the same.

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:

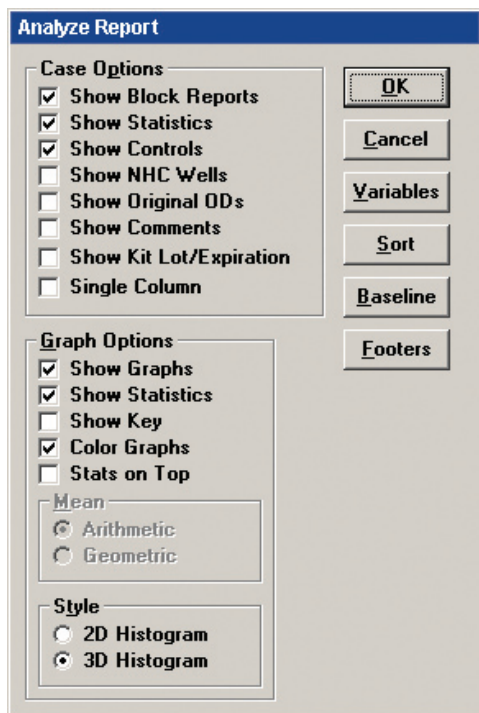
7. Click **OK** to save these settings, and then click the **OK** button to save the assay to the database. You can now test for BHV1 antibodies using the xChek Assay Management System.

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 “Reading of Results” section in the insert provided with this test kit.

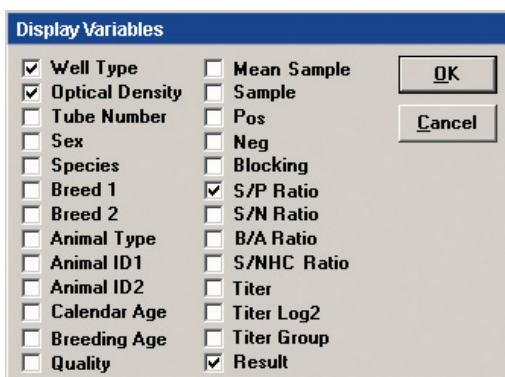
Setting Up Additional Display Variables

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



Dr. Bommeli AG, a subsidiary
of IDEXX Laboratories, Inc.

Stationsstrasse 12
CH-3097 Liebefeld-Bern
Switzerland

For more information, call Bommeli Technical Services at 41-31-970-62-60 or IDEXX Technical Services at 1-800-548-9997 (in the U.S.) or 1-207-856-0890 (outside of the U.S.), or visit us on the Web at idexx.com.



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One IDEXX Drive
Westbrook, Maine 04092 USA
idexx.com