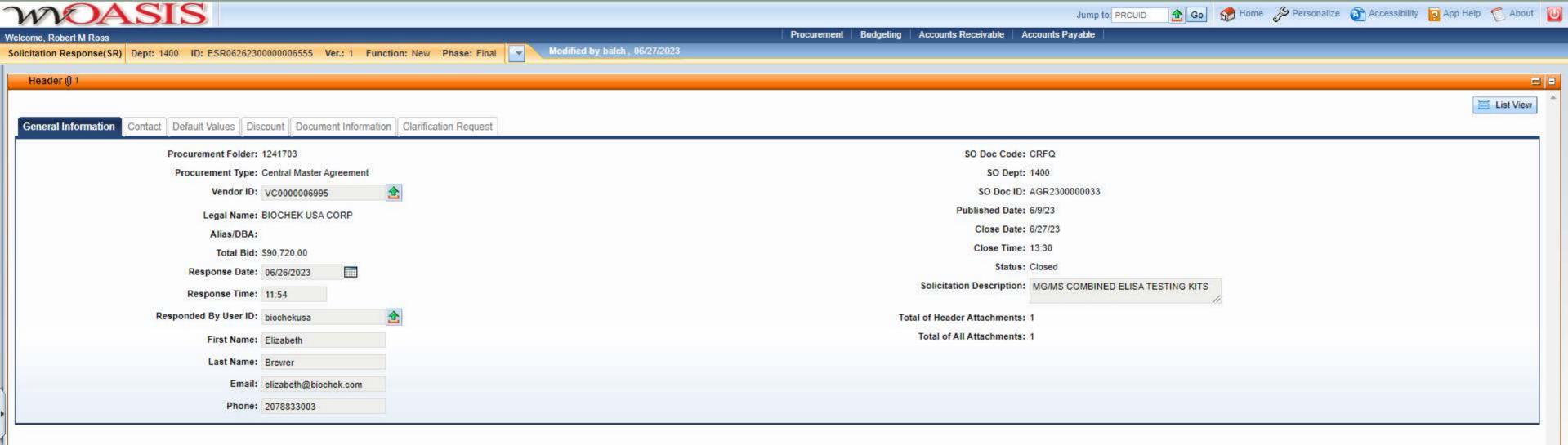
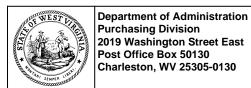


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

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The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





# State of West Virginia Solicitation Response

Proc Folder:

1241703

**Solicitation Description:** 

MG/MS COMBINED ELISA TESTING KITS

Proc Type:

Central Master Agreement

| Solicitation Closes | Solicitation Response        | Version |
|---------------------|------------------------------|---------|
| 2023-06-27 13:30    | SR 1400 ESR06262300000006555 | 1       |

**VENDOR** 

VC000006995 BIOCHEK USA CORP

Solicitation Number:

CRFQ 1400 AGR2300000033

**Total Bid:** 

90720

Response Date: 2

2023-06-26

DATE

Response Time:

11:54:52

Comments:

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead (304) 558-2402 crystal.g.hustead@wv.gov

Vendor

Signature X FEIN#

All offers subject to all terms and conditions contained in this solicitation

 Date Printed:
 Jun 27, 2023
 Page: 1
 FORM ID: WV-PRC-SR-001 2020/05

| Line | Comm Ln Desc              | Qty       | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|---------------------------|-----------|------------|------------|-----------------------------|
| 1    | MG/MS Combined ELISA Kits | 252.00000 | EA         | 360.000000 | 90720.00                    |

| Comm Code | Manufacturer | Specification | Model # |  |
|-----------|--------------|---------------|---------|--|
| 41116126  |              |               |         |  |

Commodity Line Comments: Shipping included in the quotation at the USDA mandatory FED EX overnight service rate.

The BioChek Mg/Ms ELISA kit is USDA licensed and held along with the Al ELISA kit at BioChek USDA licensed facility located in Scarborough, Maine The BioChek MG/MS kit offers a high degree of sensitivity with good specificity. If mycoplasma antibodies are present in the avain serum, it will detect as soon as 7 days dpi. BioChek's mg/ms ElISA detect mycoplasma at the earliest date relative to all ELISA methodologies. BioChek is the only supplier to provide an external control to validate the quality of results being reported.

#### **Extended Description:**

Unit Price must include all shipping and handling charges.

Date Printed: Jun 27, 2023 Page: 2 FORM ID: WV-PRC-SR-001 2020/05



# MGMS

# Data Pack

Mycoplasma gallisepticum/synoviae Combined Antibody Test Kit (Detects antibodies to both mycoplasma gallisepticum and synoviae)



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**Applications** 

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Test procedure

Results

Interpretation of results

Data Sheets Pages 7-16

Sensitivity Specificity, Negatives Specificity, Monospecific panel Specificity, Monospecific panel 2 Ring Trial



#### **SUMMARY**

#### Kit

- 5 plates
- Indirect ELISA
- Run at room temperature
- Incubation times: 30-30-15
- Read at: 405nm1:500 dilution

# **Key Performance Features**

# **Sensitivity**

Mg: sensitivity similar to HI. Ms similar to the common confirmation method for MS which is a serial dilution on the RPA (rapid plate antigen).

# **Specificity**

All our mycoplasma tests are very specific. However we recommend to confirm with other methods when finding postive results.

# Reproducibility

Plate CV's lower than 10%.

## **Applications**

#### **Screening**

The Most common use of the Ms/Mg ELISA is screening flocks for positives on the combination test. When positive samples are found, confirm with Ms or Mg ELISA. When these are also positive, confirm with another method.

#### **Vaccination monitoring**

When using the BioChek Mycoplasma ELISA's for confirmation of success of vaccination one should first contact the vaccine manufacturer to get information on expected serology after vaccination.



# **BioChek Poultry Immunoassays**

# Mycoplasma gallisepticum/synoviae Antibody Test Kit (Mg/Ms)

Catalogue Code CK 215

#### **Description of Test**

The Mg/Ms ELISA kit will measure the amount of antibody to Mg/Ms in the serum of chickens. Microtitre plates have been pre-coated with inactivated Mg/Ms antigen. Chicken serum samples are diluted and added to the microtitre wells where any anti- Mg/Ms antibodies present will bind and form an antigen-antibody complex. Non specific antibodies and other serum proteins are then washed away. Anti-chicken IgG labelled with the enzyme alkaline phosphatase is then added to the wells and binds to any chicken anti- Mg/Ms antibodies bound to the antigen. After another wash to remove unreacted conjugate, substrate is added in the form of pNPP chromogen. A yellow colour is developed if anti- Mg/Ms antibody is present and the intensity is directly related to the amount of anti- Mg/Ms antibody present in the sample.

#### **Reagents provided:**

- 1. Mg/Ms Coated plates. Inactivated viral antigen on microtitre plates.
- 2. Conjugate reagent. Anti-Chicken: Alkaline Phosphatase in Tris buffer with protein stabilisers, inert red dye and sodium azide preservative (0.1% w/v).
- 3. Substrate tablets. PNPP (p-Nitrophenyl Phosphate) tablets to dissolve with Substrate buffer.
- **4. Substrate buffer reagent**. Diethanolamine buffer with enzyme co-factors.
- **5. Stop solution**. Sodium Hydroxide in Diethanolamine buffer.
- Sample diluent reagent. Phosphate buffer with protein stabilisers and sodium azide preservative (0.1% w/v).
- 7. Wash buffer sachets. Powdered Phosphate Buffered Saline with Tween.
- **8. Negative control.** Specific Pathogen Free serum in Phosphate buffer with protein stabilisers and sodium azide preservative (0.1% w/v).
- **9. Positive control.** Antibodies specific to Mg/Ms in Phosphate buffer with protein stabilisers and sodium azide preservative (0.1% w/v).

#### Materials and Equipment required (not provided with kit):

Precision Pipettes and disposable tips 8 or 12 channel pipette/repeater pipette Plastic tubes for sample dilution Distilled or deionised water Microtitre Plate Reader with 405 nm filter Microtitre Plate Washer

#### Warnings and Precautions:

- 1. Handle all reagents with care. STOP SOLUTION contains STRONG ALKALI which can be CAUSTIC. If in contact with skin or eyes, wash with copious amounts of water.
- 2. Treat all biological materials as potentially biohazardous, including all field samples. Decontaminate used plates and waste including washings with bleach or other strong oxidising agent before disposal.
- **3.** NEVER pipette anything by mouth. There should be no eating, drinking or smoking in areas designated for using kit reagents and handling field samples.
- **4.** This kit is for IN VITRO use only.
- 5. Strict adherence to the test protocol will lead to achieving best results.



#### Reagent preparation:

**1. Substrate Reagent**. To make substrate reagent, add 1 tablet to 5.5 - 6 ml of substrate buffer and allow to mix until fully dissolved (+/- 10 minutes). The prepared reagent should be made on day of use but will be stable for one week if kept in dark at +4 °C. Drop tablets into clean container and add appropriate volume of substrate buffer.

#### DO NOT HANDLE TABLETS WITH BARE FINGERS

- **2. Wash Buffer**. Empty the contents of one wash buffer sachet into one litre of distilled or deionised water and allow to dissolve fully by mixing.
- 3. All other kit components are ready to use but allow them to come to room temperature (22-27°C) before use.

#### Sample preparation:

1. Dilute each test sample 1:500

POSITIVE AND NEGATIVE KIT CONTROLS DO NOT REQUIRE DILUTING!!

#### **Test procedure:**

- 1. Remove Mg/Ms coated plate from sealed bag and record location of samples on template.
- 2. Add 100 µl of negative control into wells A1 and B1.
- 3. Add 100 µl of positive control into wells C1 and D1.
- **4.** Add 100 μl of diluted samples into the appropriate wells. Cover plate with lid and incubate at room temperature (22-27°C) for **30 minutes**.
- 5. Aspirate contents of wells and wash 4 times with wash buffer (350μl per well). Invert plate and tap firmly on absorbent paper until no moisture is visible.
- **6.** Add 100 μl of Conjugate reagent into the appropriate wells. Cover plate with lid and incubate at room temperature (22-27°C) for **30 minutes**.
- 7. Repeat wash procedure as in 5.
- **8.** Add 100 μl of Substrate reagent into the appropriate wells. Cover plate with lid and incubate at room temperature (22-27°C) for **15 minutes**.
- 9. Add 100 µl of Stop solution to appropriate wells to stop reaction.
- **10.** Blank the microtitre plate reader on air and record the absorbance of controls and the samples by reading at 405 nm.



#### **Results:**

For the test result to be valid the mean negative control absorbance should read below 0.30 and the difference between the mean negative control and the mean positive control should be greater than 0.15.

Variance in lab temperatures will lead to lower or higher absorbance values. Test sample values will be relative to the control values and the test will still be valid.

The Mg/Ms positive control has been carefully standardised to represent significant amounts of antibody to Mg/Ms in Chicken serum. The relative amounts of antibodies in chicken samples can then be calculated by reference to the positive control. This relationship is expressed as S/P ratio (Sample to Positive Ratio).

#### **Interpretation of results**

Samples with an S/P of 0.5 or greater contain anti-Mg/Ms antibodies and are considered POSITIVE.

#### 1. Calculation of S/P ratio

Mean of Test Sample - Mean of negative control

Mean of Positive control - Mean of negative control

Samples with an S/P of 0.499 or less are considered NEGATIVE.

Because the Mg/Ms combined test is a screening assay, it is not possible to generate antibody titre values that are valid for Mg or Ms.

The S/P generated for a sample will be for Mg or Ms. There is no differentiation between the two by this test. For a general titre value, the following equation may be used:

Log10 Titre = 1.1 \* Log (SP) + 3.156 Antilog = Titre

For identification of a positive sample, it will be necessary to run the sample again using a monospecific Mg kit (cat. No. CK114) or Ms (cat.no. CK115)

For confirmation of status additional alternative testing should be performed.

Distributor: BioChek B.V. Burg Bracklaan 57 2811 BP Reeuwijk Holland

tel: +31 182 582 592 fax: +31 182 599 360 E-mail: <u>info@biochek.com</u> Website: www.biochek.com

KI/CK215REV04

Manufacturer: BioChek (UK) Ltd. 11 Mill farm business park Millfield Road, Hounslow London TW4 5PY



#### **SENSITIVITY**

#### **Purpose**

To establish the time it takes for the BioChek MgMs antibody detection assay to detect antibodies after active immunization.

# **Procedure**

6 antisera chickens were infected with Mg at 3 weeks of age and another 6 were infected with Ms at 3 weeks of age. Serum samples were collected every week.

#### **Results/Conclusion**

The results are shown in Table 1 and Table 2.

## Mg positive samples

RPA tests positive 14 days post challenge HI tests positive 21 days post challenge BioChek MgMs tests positive 21 Days post Challenge BioChek MgMsHS tests positive 14 Days post Challenge

# Ms positive samples

RPA tests positive 7 days post challenge HI tests positive 14 days post challenge BioChek MgMs tests positive 21 Days post Challenge BioChek MgMsHS tests positive 14 Days post Challenge

#### Table 1Sensitivity

Date: 27 september 2005

#### Mg temporal samples

#### % positive

|     | Days | RPA | RPA |       | ВС   | BC     |
|-----|------|-----|-----|-------|------|--------|
| age | P.I  | Mg  | Ms  | HI Mg | MgMs | MgMsHS |
| 3W  | D00  | 0   | 0   | 0     | 0    | 0      |
| 4W  | D07  | 0   | 0   | 0     | 0    | 0      |
| 5W  | D14  | 83  | 0   | 0     | 0    | 17     |
| 6W  | D21  | 100 | 0   | 81    | 17   | 67     |

#### Table 2

Ms temporal samples

% positive

|     |             | 70 P C C. C. |           |       |            |              |
|-----|-------------|--------------|-----------|-------|------------|--------------|
| age | Days<br>P.I | RPA<br>Mg    | RPA<br>Ms | HI Ms | BC<br>MgMs | BC<br>MgMsHS |
| 3W  | D00         | 0            | 0         | 0     | 0          | 0            |
| 4W  | D07         | 0            | 16        | 0     | 0          | 0            |
| 5W  | D14         | 0            | 100       | 50    | 0          | 50           |
| 6W  | D21         | 0            | 100       | 100   | 17         | 67           |



# **SPECIFICITY**

#### **Purpose**

To determine the distribution and characteristics of chicken serum originating from SPF (Specific Pathogen Free) chickens, when tested on the BioChek MgMs ELISA.

# **Procedure**

62 SPF birds at one day old and 43 birds at 24 and 33 weeks were obtained and assayed using the standard protocol for the MgMs ELISA.

# **Results**

The results are shown in Table 2 and Table 3

The data demonstrates that the BioChek MgMs ELISA has 100% specificity on these sample panels.



Table 2 Specificity Panel

| Table 2 S  | Specifi            | city Panel | !              |             |               |          |            |          |
|------------|--------------------|------------|----------------|-------------|---------------|----------|------------|----------|
| BioChek    |                    |            |                |             | T             |          |            |          |
| Page: 1    |                    |            |                | T           | Date: 09-06-2 | 2008     |            |          |
| Report:    | Report: BlockDiagr |            |                |             |               |          |            |          |
| Name:      |                    |            | 01D            |             |               |          |            |          |
| Age:       |                    |            | 01D            |             |               |          |            |          |
| Bleeding   | Date:              |            | 18-10-2007     |             |               |          |            |          |
| Testing D  | ate:               |            | 18-10-2007     |             |               |          |            |          |
| Assay:     |                    |            | Mg/Ms          |             | Lot No:       |          |            |          |
| Positive C | Cutoff S           | /P >=      | 0.5            |             | Dilution:     |          |            | 500      |
| Mean Tite  | er:                |            | 14             |             | Total No. San | nples:   |            | 62       |
| G.M.T.     |                    |            | 2              |             | Neg/Sus/Pos   | =        |            | 62/0/0   |
|            |                    |            | 441            |             |               |          |            |          |
|            |                    |            |                |             |               |          |            |          |
| Titer Ran  | ge Ref.            | Controls:  | R6 (1000-2500) |             |               |          |            |          |
| Mean Tite  |                    | Controls:  | R6= 2023       |             |               |          |            |          |
| Sample II  | D /                |            | D O. D.        | C/D D · · · |               | T:4 : :: | Tian       |          |
| Well       |                    | 4.01       | Raw O.D.       | S/P Ratio   |               | Titer    | Titer Grou | p/Result |
|            | -                  | A01        | 0.171          | 0           |               |          |            |          |
|            | -                  | B01        | 0.171          | 0           |               |          |            |          |
|            | +                  | C01        | 0.659          | 0           |               |          |            |          |
|            | +                  | D01        | 0.66           | 0           |               |          |            |          |
| 01         |                    | G01        | 0.157          | 0.00001     |               | 1        | NEG -      |          |
| 02         |                    | H01        | 0.168          | 0.00001     |               | 1        | NEG -      |          |
| 03         |                    | A02        | 0.157          | 0.00001     |               | 1        | NEG -      |          |
| 04         |                    | B02        | 0.17           | 0.00001     |               | 1        | NEG -      |          |
| 05         |                    | C02        | 0.152          | 0.00001     |               | 1        | NEG -      |          |
| 06         |                    | D02        | 0.159          | 0.00001     |               | 1        | NEG -      |          |
| 07         |                    | E02        | 0.163          | 0.00001     |               | 1        | NEG -      |          |
| 08         |                    | F02        | 0.175          | 0.008       |               | 7        | NEG -      |          |
| 09         |                    | G02        | 0.148          | 0.00001     |               | 1        | NEG -      |          |
| 10         |                    | H02        | 0.151          | 0.00001     |               | 1        | NEG -      |          |
| 11         |                    | A03        | 0.16           | 0.00001     |               | 1        | NEG -      |          |
| 12         |                    | B03        | 0.155          | 0.00001     |               | 1        | NEG -      |          |
| 13         |                    | C03        | 0.153          | 0.00001     |               | 1        | NEG -      |          |
| 14         |                    | D03        | 0.166          | 0.00001     |               | 1        | NEG -      |          |
| 15         |                    | E03        | 0.165          | 0.00001     |               | 1        | NEG -      |          |
| 16         |                    | F03        | 0.172          | 0.002       |               | 2        | NEG -      |          |
| 17         |                    | G03        | 0.178          | 0.014       |               | 13       | NEG -      |          |
| 18         |                    | H03        | 0.163          | 0.00001     |               | 1        | NEG -      |          |
| 19         |                    | A04        | 0.182          | 0.023       |               | 23       | NEG -      |          |
| 20         |                    | B04        | 0.153          | 0.00001     |               | 1        | NEG -      |          |
| 21         |                    | C04        | 0.15           | 0.00001     |               | 1        | NEG -      |          |
| 22         |                    | D04        | 0.152          | 0.00001     |               | 1        | NEG -      |          |
| 23         |                    | E04        | 0.158          | 0.00001     |               | 1        | NEG -      |          |



| 2.4 |     | =     | 0.0     |     |       |  |
|-----|-----|-------|---------|-----|-------|--|
| 24  | F04 | 0.165 | 0.00001 | 1   | NEG - |  |
| 25  | G04 | 0.152 | 0.00001 | 1   | NEG - |  |
| 26  | H04 | 0.167 | 0.00001 | 1   | NEG - |  |
| 27  | A05 | 0.164 | 0.00001 | 1   | NEG - |  |
| 28  | B05 | 0.154 | 0.00001 | 1   | NEG - |  |
| 29  | C05 | 0.155 | 0.00001 | 1   | NEG - |  |
| 30  | D05 | 0.147 | 0.00001 | 1   | NEG - |  |
| 31  | E05 | 0.176 | 0.01    | 9   | NEG - |  |
| 32  | F05 | 0.162 | 0.00001 | 1   | NEG - |  |
| 33  | G05 | 0.161 | 0.00001 | 1   | NEG - |  |
| 34  | H05 | 0.193 | 0.045   | 47  | NEG - |  |
| 35  | A06 | 0.161 | 0.00001 | 1   | NEG - |  |
| 36  | B06 | 0.154 | 0.00001 | 1   | NEG - |  |
| 37  | C06 | 0.151 | 0.00001 | 1   | NEG - |  |
| 38  | D06 | 0.154 | 0.00001 | 1   | NEG - |  |
| 39  | E06 | 0.161 | 0.00001 | 1   | NEG - |  |
| 40  | F06 | 0.161 | 0.00001 | 1   | NEG - |  |
| 41  | G06 | 0.143 | 0.00001 | 1   | NEG - |  |
| 42  | H06 | 0.164 | 0.00001 | 1   | NEG - |  |
| 43  | A07 | 0.162 | 0.00001 | 1   | NEG - |  |
| 44  | B07 | 0.173 | 0.004   | 3   | NEG - |  |
| 45  | C07 | 0.152 | 0.00001 | 1   | NEG - |  |
| 46  | D07 | 0.157 | 0.00001 | 1   | NEG - |  |
| 47  | E07 | 0.164 | 0.00001 | 1   | NEG - |  |
| 48  | F07 | 0.211 | 0.082   | 91  | NEG - |  |
| 49  | G07 | 0.229 | 0.119   | 138 | NEG - |  |
| 50  | H07 | 0.184 | 0.027   | 27  | NEG - |  |
| 51  | A08 | 0.16  | 0.00001 | 1   | NEG - |  |
| 52  | B08 | 0.167 | 0.00001 | 1   | NEG - |  |
| 53  | C08 | 0.161 | 0.00001 | 1   | NEG - |  |
| 54  | D08 | 0.152 | 0.00001 | 1   | NEG - |  |
| 55  | E08 | 0.157 | 0.00001 | 1   | NEG - |  |
| 56  | F08 | 0.158 | 0.00001 | 1   | NEG - |  |
| 57  | G08 | 0.163 | 0.00001 | 1   | NEG - |  |
| 58  | H08 | 0.171 | 0.00001 | 1   | NEG - |  |
| 59  | A09 | 0.157 | 0.00001 | 1   | NEG - |  |
| 60  | B09 | 0.173 | 0.004   | 3   | NEG - |  |
| 61  | C09 | 0.159 | 0.00001 | 1   | NEG - |  |
| 62  | D09 | 0.346 | 0.358   | 463 | NEG - |  |
|     |     |       |         |     |       |  |
|     |     |       |         |     | •     |  |



# Table 3 Specificity Panel

| Name :                     | 24   | W+33V      | V        |    |         |              |        |              |
|----------------------------|------|------------|----------|----|---------|--------------|--------|--------------|
| Bleeding Date :            | +    | 18-10-2007 |          |    |         |              |        |              |
| Testing Date:              |      | -10-200    |          |    |         |              |        |              |
| Assay:                     |      | g/Ms       |          |    |         | Lot No:      |        |              |
| Positive Cutoff S/P        | 1,12 | 5/1/15     |          |    |         | 2011.0.      |        |              |
| >=                         |      |            | 0.5      |    |         | Dilution :   |        |              |
| Mean Titer:                |      |            | 6        |    |         | Total No. Sa | mples: |              |
| G.M.T.                     |      |            | 1        |    |         | Neg/Sus/Pos  | =      |              |
| •                          |      |            | 467      |    |         |              |        |              |
| •                          |      |            |          |    |         |              |        |              |
| Titer Range Ref.           | D.C  | (1000      | 2500)    |    |         |              |        |              |
| Controls:  Mean Titer Ref. | K6   | (1000-     | -2500)   |    |         |              |        |              |
| Controls:                  | R6   | = 1911     |          |    |         |              |        |              |
|                            |      |            |          |    | S/P     |              |        | Titer        |
| Sample ID / Well           |      |            | Raw O.D. |    | Ratio   |              | Titer  | Group/Result |
|                            | -    | A01        | 0.16     |    | 0       |              |        |              |
|                            | -    | B01        | 0.16     |    | 0       |              |        |              |
|                            | +    | C01        | 0.58     |    | 0       | )            |        |              |
|                            | +    | D01        | 0.62     | 24 | 0       | )            |        |              |
| 01                         |      | G01        | 0.15     | 51 | 0.00001 |              | 1      | NEG -        |
| 02                         |      | H01        | 0.16     | 51 | 0.00001 |              | 1      | NEG -        |
| 03                         |      | A02        | 0.14     | 17 | 0.00001 |              | 1      | NEG -        |
| 04                         |      | B02        | 0.14     | 17 | 0.00001 |              | 1      | NEG -        |
| 05                         |      | C02        | 0.14     | 1  | 0.00001 |              | 1      | NEG -        |
| 06                         |      | D02        | 0.14     | 16 | 0.00001 |              | 1      | NEG -        |
| 07                         |      | E02        | 0.14     | 15 | 0.00001 |              | 1      | NEG -        |
| 08                         |      | F02        | 0.14     | 19 | 0.00001 |              | 1      | NEG -        |
| 09                         |      | G02        | 0.14     | 18 | 0.00001 |              | 1      | NEG -        |
| 10                         |      | H02        | 0.16     | 66 | 0.006   | ;            | 5      | NEG -        |
| 11                         |      | A03        | 0.12     | 26 | 0.00001 |              | 1      | NEG -        |
| 12                         |      | B03        | 0.14     | 16 | 0.00001 |              | 1      | NEG -        |
| 13                         |      | C03        | 0.13     | 32 | 0.00001 |              | 1      | NEG -        |
| 14                         |      | D03        | 0.14     | 18 | 0.00001 |              | 1      | NEG -        |
| 15                         |      | E03        | 0.14     | 17 | 0.00001 |              | 1      | NEG -        |
| 16                         |      | F03        | 0.15     |    | 0.00001 |              | 1      |              |
| 17                         |      | G03        | 0.15     |    | 0.00001 |              | 1      | İ            |
| 18                         |      | H03        | 0.15     |    | 0.00001 |              | 1      |              |
| 19                         |      | A04        | 0.14     | 19 | 0.00001 |              | 1      |              |
| 20                         |      | B04        | 0.1      |    | 0.00001 |              | 1      | İ            |
| 21                         |      | C04        | 0.13     |    | 0.00001 |              | 1      | İ            |
| 22                         |      | D04        | 0.11     |    | 0.00001 |              | 1      |              |
| 23                         |      | E04        | 0.11     |    | 0.00001 |              | 1      |              |
| 24                         |      | F04        | 0.15     |    | 0.00001 |              | 1      | İ            |



| 25 | G04 | 0.156 | 0.00001 | <br>1   | NEG - |
|----|-----|-------|---------|---------|-------|
| 26 | H04 | 0.161 | 0.00001 | 1       | NEG - |
| 27 | A05 | 0.134 | 0.00001 | 1       | NEG - |
| 28 | B05 | 0.148 | 0.00001 | 1       | NEG - |
| 29 | C05 | 0.144 | 0.00001 | 1       | NEG - |
| 30 | D05 | 0.131 | 0.00001 | 1       | NEG - |
| 31 | E05 | 0.148 | 0.00001 | 1       | NEG - |
| 32 | F05 | 0.133 | 0.00001 | 1       | NEG - |
| 33 | G05 | 0.131 | 0.00001 | 1       | NEG - |
| 34 | H05 | 0.167 | 0.008   | 7       | NEG - |
| 35 | A06 | 0.127 | 0.00001 | 1       | NEG - |
| 36 | B06 | 0.146 | 0.00001 | 1       | NEG - |
| 37 | C06 | 0.1   | 0.00001 | 1       | NEG - |
| 38 | D06 | 0.152 | 0.00001 | 1       | NEG - |
| 39 | E06 | 0.152 | 0.00001 | 1       | NEG - |
| 40 | F06 | 0.174 | 0.024   | 24      | NEG - |
| 41 | G06 | 0.169 | 0.012   | 11      | NEG - |
| 42 | H06 | 0.146 | 0.00001 | <br>1   | NEG - |
| 43 | A07 | 0.232 | 0.155   | <br>184 | NEG - |
|    |     |       |         | <br>    |       |
|    |     |       | •       |         |       |

BioChek (c)



#### MONOSPECIFIC SAMPLE PANEL

Monospecific samples containing antibodies to various Mycoplasmas.

# **Purpose**

To determine if the BioChek MgMS test kit cross-reacts with antibodies generated by other Mycoplasma pathogens common in poultry flocks.

#### Procedure

A sample panel monospecific for antibodies of Mycoplasma pathogens common in poultry was tested on the BioChek MgMS test.

# **Results / Conclusion**

The results are shown in Table 4

The data demonstrates that only the monospecific serum sample for Mg and Ms tested positive on the BioChek MgMs ELISA. This concludes that the test kit does not cross-react with antibodies directed at other Mycoplasma avian pathogens.

Table 4 Monospecific Panel

| _                |           |        |
|------------------|-----------|--------|
|                  | Biochek I | MgMsHS |
| Antiserum        | S/P       | result |
| M. synoviae      | 3.1       | pos    |
| M. gallisepticum | 4.8       | pos    |
| M. galinaceum    | 0.0       | neg    |
| M. gallinar      | 0.0       | neg    |
| M. iowae         | 0.0       | neg    |
| M. meleagridis   | 0.0       | neg    |
| M. iners         | 0.0       | neg    |
| M. pullorum      | 0.0       | neg    |
| M. gallopavonis  | 0.0       | neg    |
| M. imitans       | 0.1       | neg    |
|                  |           |        |



#### **MONOSPECIFIC SAMPLE PANEL 2**

Monospecific samples containing antibodies to various viruses.

# **Purpose**

To determine if the BioChek MgMS test kit cross-reacts with antibodies generated by other pathogens common in poultry flocks.

#### **Procedure**

A sample panel monospecific for antibodies of pathogens common in poultry was tested on the BioChek MgMS test.

# **Results / Conclusion**

The results are shown in Table 5

The data demonstrates that only the monospecific serum sample for Mg and Ms tested positive on the BioChek MgMs ELISA. This concludes that the test kit does not cross-react with antibodies directed at other avian pathogens.

# Table 5Monospecific Panel

 $\begin{array}{ccc} & & S/P \\ Sample \ ID & Ratio & RESULT \end{array}$ 

| 4/91DEV  | 0.039 | NEG | D274INT | 0.018 | NEG |
|----------|-------|-----|---------|-------|-----|
| 4/91INT  | 0.018 | NEG | D3128   | 0.011 | NEG |
| 793BVLA  | 0.018 | NEG | D8880   | 0.022 | NEG |
| adeno    | 0.018 | NEG | ECOLI1  | 0.081 | NEG |
| AE       | 0.018 | NEG | ECOLI2  | 0.018 | NEG |
| CR88     | 0.018 | NEG | Fpox    | 0.018 | NEG |
| CR98     | 0.018 | NEG | IBD     | 0.017 | NEG |
| D1466    | 0.018 | NEG | ILT     | 0.018 | NEG |
| D1466INT | 0.018 | NEG | ILTAGP  | 0.018 | NEG |
| D274     | 0.011 | NEG | M41     | 0.028 | NEG |
| M41INT   | 0.018 | NEG | REO1133 | 0.018 | NEG |
| Mg       | 2     | POS | REO2534 | 0.018 | NEG |
| Ms       | 1.3   | POS | TRTA    | 0.018 | NEG |
| PMV1     | 0.018 | NEG | TRTC    | 0.013 | NEG |
| PMV3     | 0.018 | NEG |         |       |     |

 $Interpretation \ of \ results \ BioChek \ MgMsHS \ ELISA$ 

S/P=>.5 pos



# **RING TRIAL**

Here is the summary of the Deventer ring Trial 2006. 8 samples were tested:

| Sample number           | Origin (all sera are pooled sera)  |
|-------------------------|--|
| #1                      | Nobilis Mg S6/85 strain in 4-week-old SPF layers, sample taken at 21 d.p.i*. (normally tests negative on ELISA |
| #2                      | Ms ATCC 25204 in 26-week-old SPF layers, sample taken at 35 d.p.i.   |
| #3                      | Nobilis Mg S6/85 + Ms ATCC 25204 in SPF layers, chronic phase  |
| #4                      | SPF serum (1 year old SPF layers)  |
| #5                      | Ms ATCC 25204 + Ms Associated Amyloidosis strain 30-week-old SPF layers, sample taken at 35 d.p.i.             |
| #6                      | Ms Associated Amyloidosis strain 4-week-old SPF layers, sample taken at 14 d.p.i.                              |
| #7                      | Mg field strain in 4-week-old SPF layers, sample taken at 28 d.p.i.  |
| #8                      | Poulvac Mg (inactivated vaccine) in 4-week-old SPF layers, sample taken at 14 d.p.v**.                         |
|                         |  |
| * d.p.i. = days post ir | noculation ** d.p.v. = days post vaccination   |

# Mg Ringtrial AHS Deventer 2006

suspects results have been counted as negative in the table the result 0/2/21 means 0 positives/2 suspect/21 negatives

#### Table 1

| sample          | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| status          | neg    | Ms     | Mg/Ms  | neg    | Ms     | Ms     | Mg     | Mg     |
| BC Mg           | 0/2/21 | 0/2/21 | 23/0/0 | 1/1/21 | 0/2/21 | 0/0/23 | 23/0/0 | 23/0/0 |
| Intervet RPA Mg | 26/3/6 | 3/0/32 | 34/1/0 | 2/0/33 | 5/0/29 | 4/0/31 | 32/1/2 | 31/1/3 |

| BioChek Mg specificity                            | 99.13%           |  |  |  |
|---|------------------|--|--|--|
| BioChek Mg sensitivity                            | 100%             |  |  |  |
| Intervet RPA specificity Intervet RPA sensitivity | 98.29%<br>94.29% |  |  |  |

#### Ms Ringtrial AHS Deventer 2006

suspects results have been counted as negative in the table the result 0/2/21 means 0 positives/2 suspect/21 negatives

# table 2

| sample          | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| status          | neg    | Ms     | Mg/Ms  | neg    | Ms     | Ms     | Mg     | Mg     |
| BC Ms           | 0/0/14 | 13/0/1 | 13/0/1 | 0/1/13 | 13/0/1 | 1/0/13 | 0/1/13 | 0/1/13 |
| BC Ms HS        | 0/0/2  | 2/0/0  | 2/0/0  | 0/0/2  | 2/0/0  | 2/0/0  | 0/0/2  | 0/0/2  |
| Intervet RPA Ms | 1/0/28 | 25/3/1 | 26/1/2 | 1/0/28 | 29/0/0 | 27/0/2 | 0/0/29 | 4/2/23 |

| BioChek Ms specificity      | 100%   |
|-----------------------------|--------|
| BioChek Ms sensitivity      | 71%    |
| BioChek Ms HS specificity   | 100%   |
| BioChek Ms HS sensitivity   | 100%   |
| Intervet Ms RPA specificity | 94.83% |
| Intervet Ms RPA sensitivity | 92.24% |

MgMs Ringtrial AHS Deventer 2006



suspects results have been counted as negative in the table the result 0/2/21 means 0 positives/2 suspect/21 negatives

#### table 3

| sample  | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| status  | neg   | Ms    | Mg/Ms | neg   | Ms    | Ms    | Mg    | Mg    |
| BC MgMs | 0/0/4 | 4/0/0 | 4/0/0 | 0/0/4 | 4/0/0 | 0/0/4 | 4/0/0 | 4/0/0 |

BioChek MgMs specificity 100% BioChek MgMs sensitivity 75%