**VII. READING & INTERPRETING THE RESULTS**

- The upper spot on the ImmunoComb® tests for MM (for turkeys only), the middle spot tests for MG and the lower spot tests for MS. Evaluate the results of each disease separately.
- MM, MG and MS IgG levels are determined by comparing each specimen’s color intensity to the Positive Control (C+). Reading instructions are described in section VI. See illustrations 8 & 9 for details.
- Specimens with identical or higher color intensity than the Positive Control are considered positive.
- The Negative Control consists of non-immune sera and should be read as zero (S=0).
- Non-specific reactions around S1 (i.e., false positives) occurs occasionally due to various reasons and may be associated with the use of certain commercial vaccines. To avoid misinterpretation of non-specific reactions and possible confusion with true low positive results, it is recommended to confirm results by retesting at one a week interval.
- A test color darker than S6, indicates either an acute disease or a highly immune flock.
- Refer to CombScore instructions for the profiling of each specimen antibody level. To determine the immunity profile of your flock use the enclosed CombScore tables (Illustration 10).

**Important:** The margin of errors is similar to that of other enzyme Immunoassay kit procedures. Therefore, an error in one color tone will not result in a wrong diagnosis.

**Example of a developed Comb**

**VIII. THE IMMUNOCOMB® KIT CONTAINS:**

A. Thirty Comb cards, each separately wrapped in an aluminum envelope; B. Thirty Developing Plates divided into compartments A-F that are subdivided into 12 wells. The plate compartments are pre-filled with reagent solutions; C. One pair of plastic tweezers; D. One CombScale color card; E. One tube of Positive Control serum and one tube of Negative Control serum. A CombScore sheet and an instruction manual are included.

**Note:** A pipette or capillary tubes are needed. The capillary tubes are available at Biogal or through your supplier: 40 capillary tubes & 1 piston, CAT. NO. 10000140.
A. When the Comb is completely dry, align it with the calibrated color CombScale provided in the kit. Find the tone of the purple-grey on the CombScale that most closely matches the Positive Control spot. Slide the yellow ruler until the C+ mark appears in the window above the color you have found. Hold the slide in this position during the entire reading. This step actually calibrates the C+ to S3, which is the “cut-off” point to which test spots will be compared.

B. Read each of the spots separately: Choose the most suitable color and read the titer in the yellow windows.

VI. READING RESULTS USING THE COMBSVALUE

Another way to read the results is by using the CombScan, a program that utilizes a computer and a TWAIN compatible scanner. When a Comb is placed on the scanner, the program translates the color results into numerical values. The CombScan assists labs in reading ImmunoComb® results and conserving the data, and is supplied free of charge upon request.