

# VPro® IBDV AGID

## (VPro® IBDV AGID Reagent)

### CAT.NO. RP-IBD-41



### 1. introduction

VPro® IBDV AGID is diagnostic reagent for antibody detection in infected IBDV and vaccination serum. This kit is based on Agar Gel Immuno Diffusion(AGID) method using recombinant rVP2 antigen that is derived IBDV D-78 strain. This kit is consist of AGID Ag, Agar Gel, positive control.

### 2. Component

Reagents	200tests
1) IBDV D78 AGID Antigen (Lyophilized)	2.0ml X 1
2) Agar Gel	100ml X 2
3) IBDV Positive control (PC)	2.0ml X 1
4) Instruction Manual	1 copy

### 3. Implement

- 90mm diameter Glass or Plastic Petri dish.
- Agar cutter:  
5mm diameter well , the gap between well to well 4mm, 1well in the center and 6 well in the surrounding area (See Diagram 1)
- micropipet (10-100 µl)

### 4. Prparation of Agar gel

- Melt agar gel at 100 °C in the water bath for 1~2 hours. (First of all, open the bottle and perform melting step.)
- Immerse melted agar gel at 56 °C in the water bath for 30min.
- Dispense 19 ml of melted agar gel into the 90mm diameter petri dish up to 3.0mm tall.  
Perform this steps on the horizontal table.
- Stay at 4-5 °C for 1hour for Completely coagulation of the gel.
- Make the 7 wells using agar cutter.

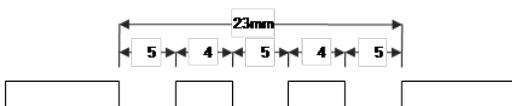
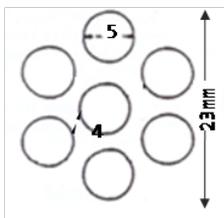


Diagram1. IBDV AGID Standard size

### 5. Preparation of antigen

Add distilled water 2.0 ml to IBDV AGID Antigen. After use completely melted antigen.

- ❖ Keep melted antigen at -20°C below.
- ❖ Dried antigen can keep at 4~8°C.

### 6. Reaction of AGID

Indicate the sample number on the plate and add antigen and sample. (See diagram 2)

- ❖ Add serum of 40µl into the well number 2,3,4,5,6.
- ❖ Add positive control of 40µl into the well number 1.
- ❖ Add IBDV AGID antigen of 40µl into the center well.

React antigen and serum in the wet container at 20°C ± 5 °C for 48hours. And determinate the result.

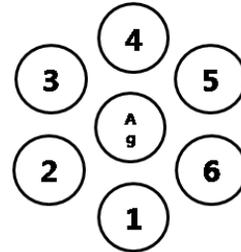


Diagram2. IBDV AGID Test

### 8. Judgement of results

- The result is confirmed within 24 and determined within 48hours.
  - If the sedimentation line is observed in positive control and serum sample at the same time,. It is determined positive serum.
  - If the sedimentation line is observed in positive control but serum is.. It is determined negative serum.
  - If the sedimentation line is not observed in positive control, try to test again.
- ❖ Use black background or paper when you determinate the result for more easier determination.

### Caution

- The IBDV AGID Antigen must be Stored at -20°C below after completely melt and dispensed.
- Avoid repeated freezing and thawing because of decreasing antigen titer
- Make Agar Gel Plate before use and Use the prepared gel within 24 hours

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