Comparative analysis of evaluation parameters in broiler chickens infected with major parasitic species of *Eimeria*

Rochelle A. Flores¹, Binh T. Nguyen¹, Paula Leona T. Cammayo¹, Cherry P. Fernandez-Colorado², Anindita Roy¹, Suk Kim¹, Woo H. Kim¹, Wongi Min¹*

¹College of Veterinary Medicine & Institute of Animal Medicine, Gyeongsang National University, Jinju, 52828, Republic of Korea
²Department of Veterinary Paraclinical Sciences, College of Veterinary Medicine, University of the Philippines Los Baños, College, Laguna, 4031, Philippines
**Supplementary Table 1.** Body weight gain of normal ROSS 308 broiler chickens

<table>
<thead>
<tr>
<th>Body weight</th>
<th>Day 5</th>
<th>Day 13</th>
<th>Day 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>male</td>
<td>female</td>
<td>female</td>
</tr>
<tr>
<td>Average</td>
<td>114.9</td>
<td>449.6</td>
<td>654.9</td>
</tr>
<tr>
<td>Standard deviation</td>
<td>6.7</td>
<td>33.6</td>
<td>33.7</td>
</tr>
<tr>
<td>$P$-value</td>
<td>0.0091</td>
<td>0.0004</td>
<td>0.0004</td>
</tr>
</tbody>
</table>

Body weight (n=30) was measured in grams per individual bird on day 5, day 13 and day 16 after hatch.
Supplementary Figure 1.

A

Body weight gain (g)

Control EA EM ET

6 days post-infection

Control EA EM ET

9 days post-infection

**

B

Lesion score

EA EM ET

0 1 2 3 4

a b

C

Oocyst production (x 1,000/g)

EA EM ET

10 50 90 130 170 210 250

a b c
Supplementary Figure 1. **Comparison of clinical symptoms in female broilers infected with *E. acervulina*, *E. maxima* and *E. tenella***. One-week-old ROSS 308 female chickens were orally infected with $1 \times 10^4$ sporulated oocysts of *E. acervulina*, *E. maxima* and *E. tenella*. (A) Body weights (n=20) were measured at days 6 and 9 after infection. **$P < 0.01$ indicates significant difference between infected groups and uninfected control group (Control). (B) Five chickens were randomly selected for gut lesion scoring 7 days after infection. Lesion scores (0 - 4) were based on scoring techniques previously described (Johnson and Reid, 1970). Within each graph, bars not sharing the indicated letters are significantly different ($P < 0.05$). (C) Fecal oocyst production in chickens (n=20). The oocysts per gram feces were obtained from fecal samples collected from day 6 to day 9 after infection. Within each graph, bars not sharing the indicated letters are significantly different ($P < 0.05$). Data represent the mean ± SE and one of two independent experiments with similar pattern results. EA, *E. acervulina*; EM, *E. maxima*; ET, *E. tenella*. 