

## Supplementary Material

**Supplementary Table S1.** Spearman's coefficients of correlation between selected clinicopathologic findings in 118 calves with *Eimeria*-associated diarrhea.

|                               | pH                 | pCO <sub>2</sub>    | pO <sub>2</sub>     | HCO <sub>3</sub> <sup>-</sup> | BE                  | SID <sub>3</sub>    | SID <sub>5</sub>    | SID <sub>eff</sub>  | USI                 | AG                  | SIG                | Na <sup>+</sup>     | K <sup>+</sup>      | Cl <sup>-</sup>     | Ca <sup>2+</sup>    | L-lac  | TP     | Alb    | P      | Urea   | Crea   | Gluc |
|-------------------------------|--------------------|---------------------|---------------------|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------|--------|--------|--------|--------|--------|------|
| pH                            | 1.0.               |                     |                     |                               |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| pCO <sub>2</sub>              | 0.45**             | 1.0.                |                     |                               |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| pO <sub>2</sub>               | 0.18 <sup>NS</sup> | 0.01 <sup>NS</sup>  | 1.0.                |                               |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| HCO <sub>3</sub> <sup>-</sup> | 0.92**             | 0.72**              | 0.12 <sup>NS</sup>  | 1.0.                          |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| BE                            | 0.95**             | 0.66**              | 0.16 <sup>NS</sup>  | 0.99**                        | 1.0.                |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| SID <sub>3</sub>              | 0.33**             | 0.31**              | -0.16 <sup>NS</sup> | 0.37**                        | 0.36**              | 1.0.                |                     |                     |                     |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| SID <sub>5</sub>              | 0.48**             | 0.46**              | -0.04 <sup>NS</sup> | 0.55**                        | 0.54**              | 0.62**              | 1.0.                |                     |                     |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| SID <sub>eff</sub>            | 0.89**             | 0.68**              | 0.13 <sup>NS</sup>  | 0.97**                        | 0.96**              | 0.44**              | 0.67**              | 1.0.                |                     |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| USI                           | 0.66**             | 0.47**              | 0.23*               | 0.70**                        | 0.70**              | -0.21*              | -0.09 <sup>NS</sup> | 0.67**              | 1.0.                |                     |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| AG                            | -0.63**            | -0.49**             | -0.26*              | -0.69**                       | -0.69**             | 0.32**              | 0.08 <sup>NS</sup>  | -0.59**             | -0.90**             | 1.0.                |                    |                     |                     |                     |                     |        |        |        |        |        |        |      |
| SIG                           | 0.67**             | 0.47**              | 0.26*               | 0.71**                        | 0.72**              | -0.24*              | 0.01 <sup>NS</sup>  | 0.69**              | 0.95**              | -0.95**             | 1.0.               |                     |                     |                     |                     |        |        |        |        |        |        |      |
| Na <sup>+</sup>               | 0.20*              | 0.29**              | 0.34**              | 0.28*                         | 0.29*               | 0.14 <sup>NS</sup>  | 0.16 <sup>NS</sup>  | 0.24**              | 0.21*               | -0.27**             | 0.24**             | 1.0.                |                     |                     |                     |        |        |        |        |        |        |      |
| K <sup>+</sup>                | -0.44**            | -0.35**             | -0.38**             | -0.49**                       | -0.50**             | 0.07 <sup>NS</sup>  | 0.00 <sup>NS</sup>  | -0.42**             | -0.59**             | 0.58**              | -0.56**            | -0.41**             | 1.0.                |                     |                     |        |        |        |        |        |        |      |
| Cl <sup>-</sup>               | 0.03 <sup>NS</sup> | 0.13 <sup>NS</sup>  | 0.39**              | 0.09 <sup>NS</sup>            | 0.10 <sup>NS</sup>  | -0.23*              | -0.16 <sup>NS</sup> | 0.04 <sup>NS</sup>  | 0.24*               | -0.35**             | 0.30**             | 0.90**              | -0.37**             | 1.0.                |                     |        |        |        |        |        |        |      |
| Ca <sup>2+</sup>              | -0.22*             | -0.00 <sup>NS</sup> | 0.33**              | -0.15 <sup>NS</sup>           | -0.13 <sup>NS</sup> | -0.16 <sup>NS</sup> | -0.14 <sup>NS</sup> | -0.13 <sup>NS</sup> | -0.02 <sup>NS</sup> | -0.04 <sup>NS</sup> | 0.02 <sup>NS</sup> | 0.61**              | -0.07 <sup>NS</sup> | 0.70**              | 1.0.                |        |        |        |        |        |        |      |
| L-Lac                         | -0.32**            | -0.27**             | -0.30*              | -0.37**                       | -0.38**             | 0.21*               | -0.20*              | -0.35**             | -0.35**             | 0.58**              | -0.59**            | -0.29**             | 0.31**              | -0.38**             | -0.18 <sup>NS</sup> | 1.0.   |        |        |        |        |        |      |
| TP                            | -0.43**            | -0.22*              | -0.10 <sup>NS</sup> | -0.41**                       | -0.42**             | 0.16 <sup>NS</sup>  | 0.11 <sup>NS</sup>  | -0.19*              | -0.34**             | 0.58**              | -0.36**            | -0.23*              | 0.35**              | -0.24*              | 0.03 <sup>NS</sup>  | 0.20*  | 1.0.   |        |        |        |        |      |
| Alb                           | -0.43**            | -0.15 <sup>NS</sup> | -0.10 <sup>NS</sup> | -0.38**                       | -0.39**             | 0.20*               | 0.14 <sup>NS</sup>  | -0.19*              | -0.36**             | 0.55**              | -0.37**            | -0.10 <sup>NS</sup> | 0.31**              | -0.12 <sup>NS</sup> | 0.19*               | 0.21*  | 0.87** | 1.0.   |        |        |        |      |
| P                             | -0.51**            | -0.27*              | -0.33**             | -0.51**                       | -0.52**             | 0.27*               | 0.01 <sup>NS</sup>  | -0.44**             | -0.73**             | 0.76**              | -0.73**            | -0.38**             | 0.56**              | -0.44**             | -0.23*              | 0.48** | 0.48** | 0.45** | 1.0.   |        |        |      |
| Urea                          | -0.46**            | -0.39**             | -0.36**             | -0.51**                       | -0.52**             | 0.12 <sup>NS</sup>  | -0.01 <sup>NS</sup> | -0.44**             | -0.60**             | 0.67**              | -0.62**            | -0.69**             | 0.49**              | -0.69**             | -0.51**             | 0.46** | 0.50** | 0.41** | 0.80** | 1.0.   |        |      |
| Crea                          | -0.42**            | -0.33**             | -0.35**             | -0.46**                       | -0.47**             | 0.22*               | 0.09 <sup>NS</sup>  | -0.40**             | -0.65**             | 0.70**              | -0.65**            | -0.52**             | 0.57**              | -0.57**             | -0.40**             | 0.43** | 0.44** | 0.38** | 0.80** | 0.83** | 1.0.   |      |
| Gluc                          | -0.29*             | -0.16 <sup>NS</sup> | -0.27*              | -0.29*                        | -0.31**             | 0.13 <sup>NS</sup>  | -0.03 <sup>NS</sup> | -0.23*              | -0.33**             | 0.44**              | -0.43**            | -0.45**             | 0.34**              | -0.46**             | -0.15 <sup>NS</sup> | 0.49** | 0.32** | 0.27*  | 0.39** | 0.45** | 0.38** | 1.0  |

\*\*  $P < 0.001$ , \*  $P < 0.05$ , <sup>NS</sup> not significant

pCO<sub>2</sub> = partial pressure of carbon dioxide, BE = base excess, AG = anion gap. A<sub>tot</sub> = concentration of non-volatile weak acids, SID<sub>3</sub> = strong ion difference calculated from three strong ions, SID<sub>5</sub> = strong ion difference calculated from five strong ions, SID<sub>eff</sub> = effective strong ion difference, USI = unidentified strong ions, SIG = strong ion gap, L-Lac = L-lactate, TP = total protein, Alb = albumin, Crea = creatinine, Gluc = glucose