

## Background data – Clinical chemistry parameters

| Parameter                         | Abbrv. | Unit   |        | Male<br>2 days | Male<br>1 week | Male<br>2 weeks | Male<br>4 weeks | Male<br>5 weeks |
|-----------------------------------|--------|--------|--------|----------------|----------------|-----------------|-----------------|-----------------|
| <b>Alanine aminotransferase</b>   | ALAT   | µKat/L | MEAN   | ND             | 0,34           | 0,44            | 0,33            | 0,57            |
|                                   |        |        | SD     | ND             | 0,03           | 0,16            | 0,10            | 0,15            |
|                                   |        |        | NUMBER | 0              | 4              | 5               | 5               | 7               |
| <b>Aspartate aminotransferase</b> | ASAT   | µKat/L | MEAN   | 0,97           | 0,46           | 0,75            | 0,51            | 0,56            |
|                                   |        |        | SD     | 0,08           | 0,09           | 0,33            | 0,2             | 0,22            |
|                                   |        |        | NUMBER | 2              | 3              | 4               | 5               | 5               |
| <b>Alkaline phosphatase</b>       | ALKPH  | µKat/L | MEAN   | 39,68          | 17,59          | 18,79           | 10,61           | 3,43            |
|                                   |        |        | SD     | 13,3           | 4,24           | 3,24            | 2,47            | 0,93            |
|                                   |        |        | NUMBER | 7              | 9              | 6               | 7               | 7               |
| <b>Gamma glutamyltransferase</b>  | GGT    | µKat/L | MEAN   | 2,09           | 1,03           | 1,40            | 1,22            | 1,82            |
|                                   |        |        | SD     | 0,78           | 0,25           | 0,24            | 0,18            | 0,64            |
|                                   |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |
| <b>Bilirubin (total)</b>          | BILI   | mmol/L | MEAN   | 3,55           | 1,71           | 1,75            | 1,56            | 2,61            |
|                                   |        |        | SD     | 1,37           | 0,45           | 0,28            | 0,53            | 1,35            |
|                                   |        |        | NUMBER | 6              | 8              | 6               | 5               | 7               |
| <b>Cholesterol</b>                | CHOL   | mmol/L | MEAN   | 1,90           | 3,15           | 3,05            | 4,78            | 3,94            |
|                                   |        |        | SD     | 0,25           | 0,69           | 0,47            | 1,26            | 1,85            |
|                                   |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |
| <b>Triglycerides</b>              | TRIG   | mmol/L | MEAN   | 4,37           | 1,91           | 1,39            | 1,34            | 0,74            |
|                                   |        |        | SD     | 2,62           | 1,05           | 0,24            | 0,65            | 0,24            |
|                                   |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |
| <b>Carbamide</b>                  | UREA   | mmol/L | MEAN   | 6,35           | 4,75           | 3,35            | 2,43            | 4,39            |
|                                   |        |        | SD     | 1,45           | 2,05           | 0,92            | 0,75            | 2,86            |
|                                   |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |

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|------------------------------|--------|--------|--------|----------------|----------------|-----------------|-----------------|-----------------|
| <b>Creatinine</b>            | CREAT  | µmol/L | MEAN   | 36,43          | 46,0           | 47,29           | 43,71           | 60,43           |
|                              |        |        | SD     | 2,30           | 3,97           | 6,37            | 8,79            | 8,75            |
|                              |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |
| <b>Glucose (wholeblood)</b>  | GLUC   | mmol/L | MEAN   | 6,92           | 7,49           | 7,00            | 7,67            | 4,99            |
|                              |        |        | SD     | 1,06           | 1,02           | 0,93            | 1,19            | 0,63            |
|                              |        |        | NUMBER | 6              | 9              | 7               | 7               | 7               |
| <b>Calcium</b>               | Ca     | mmol/L | MEAN   | 136,6          | 3,06           | 2,95            | 139,8           | 2,59            |
|                              |        |        | SD     | 2,29           | 0,18           | 0,15            | 2,18            | 0,13            |
|                              |        |        | NUMBER | 7              | 9              | 6               | 7               | 7               |
| <b>Magnesium</b>             | Mg     | mmol/L | MEAN   | 4,93           | 1,14           | 1,20            | 4,64            | 0,97            |
|                              |        |        | SD     | 0,69           | 0,13           | 0,14            | 0,46            | 0,03            |
|                              |        |        | NUMBER | 7              | 9              | 6               | 7               | 7               |
| <b>Inorganic phosphorous</b> | Pi     | mmol/L | MEAN   | 3,40           | 3,14           | 3,50            | 2,84            | 2,73            |
|                              |        |        | SD     | 0,31           | 0,22           | 0,45            | 0,1             | 0,35            |
|                              |        |        | NUMBER | 6              | 9              | 7               | 7               | 7               |
| <b>Sodium</b>                | Na     | mmol/L | MEAN   | 0,79           | 140,1          | 140,8           | 1,03            | 144,2           |
|                              |        |        | SD     | 0,09           | 1,92           | 2,3             | 0,03            | 1,61            |
|                              |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |
| <b>Potassium</b>             | K      | mmol/L | MEAN   | 1,78           | 5,23           | 5,37            | 3,22            | 5,31            |
|                              |        |        | SD     | 0,39           | 0,46           | 1,11            | 0,21            | 0,31            |
|                              |        |        | NUMBER | 7              | 9              | 6               | 7               | 7               |
| <b>Chloride</b>              | Cl     | mmol/L | MEAN   | 90,31          | 94,98          | 95,01           | 95,79           | 100,1           |
|                              |        |        | SD     | 1,85           | 1,60           | 1,33            | 1,64            | 1,73            |
|                              |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |

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| Parameter                     | Abbrv. | Unit   |        | Male<br>2 days | Male<br>1 week | Male<br>2 weeks | Male<br>4 weeks | Male<br>5 weeks |
|-------------------------------|--------|--------|--------|----------------|----------------|-----------------|-----------------|-----------------|
| <b>Protein (total)</b>        | TP     | g/L    | MEAN   | 58,59          | 49,63          | 51,39           | 54,36           | 59,53           |
|                               |        |        | SD     | 14,2           | 4,93           | 2,12            | 2,71            | 3,07            |
|                               |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |
| <b>Albumin</b>                | ALB    | g/L    | MEAN   | 17,62          | 31,31          | 36,14           | 43,79           | 47,46           |
|                               |        |        | SD     | 3,36           | 2,93           | 2,70            | 1,21            | 2,62            |
|                               |        |        | NUMBER | 5              | 9              | 7               | 7               | 7               |
| <b>Globulin</b>               | GLO    | g/L    | MEAN   | 0,41           | 18,32          | 15,24           | 4,17            | 12,07           |
|                               |        |        | SD     | 0,09           | 4,94           | 3,60            | 0,87            | 2,89            |
|                               |        |        | NUMBER | 5              | 9              | 7               | 7               | 7               |
| <b>Albumin/globulin ratio</b> | AL/G   |        | MEAN   | 44,76          | 1,83           | 2,57            | 10,84           | 4,27            |
|                               |        |        | SD     | 13,4           | 0,58           | 1,03            | 2,05            | 1,66            |
|                               |        |        | NUMBER | 5              | 9              | 7               | 7               | 7               |
| <b>Amylase</b>                | AMYL   | µKat/L | MEAN   | 9,61           | 36,31          | 37,12           | 13,76           | 32,69           |
|                               |        |        | SD     | 13,95          | 8,77           | 12,0            | 10,5            | 5,13            |
|                               |        |        | NUMBER | 7              | 8              | 7               | 7               | 7               |
| <b>Creatinekinase</b>         | CK     | µKat/L | MEAN   | 10,27          | 5,28           | 16,22           | 11,22           | 11,16           |
|                               |        |        | SD     | 1,88           | 4,62           | 11,9            | 0,79            | 8,56            |
|                               |        |        | NUMBER | 7              | 9              | 7               | 7               | 7               |
| <b>Lactate dehydrogenase</b>  | LDH    | µKat/L | MEAN   | ND             | 8,74           | 11,86           | ND              | 9,6             |
|                               |        |        | SD     | ND             | 2,03           | 3,21            | ND              | 1,06            |
|                               |        |        | NUMBER | 0              | 9              | 7               | 0               | 7               |
| <b>Sorbitol dehydrogenase</b> | SDH    | µKat/L | MEAN   | 31,15          | ND             | ND              | 49,32           | 0,08            |
|                               |        |        | SD     | 4,49           | ND             | ND              | 4,20            | 0,02            |
|                               |        |        | NUMBER | 7              | 0              | 0               | 7               | 7               |

## Background data – Clinical chemistry parameters

Clinical chemistry parameters in piglets of different ages - Male

Data from 2016

**The haematological values were determined using the instrumentation below:**

Cobas 6000, colorimetric: ASAT, ALAT, ALP, GGT, PHOS, CHOL, TRIG, UREA, CREA, GLUC, BILI, CA, MG, CK, ALB, TP, LDH, AMYL, SDH

Cobas 6000, ion selective electrodes: NA, K, CL,

Globulin and A/G ratio was calculated from Cobas results