



## Boiled potato waste silage as an alternate roughage for goats

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Supplementary Table 1. Live weight of experimental goats

| Attribute/Group*                                    | Days from onset of feeding trial |                     |                      |                      |                      | Group mean±SEM | p-value |
|-----------------------------------------------------|----------------------------------|---------------------|----------------------|----------------------|----------------------|----------------|---------|
|                                                     | 0 day                            | 8 <sup>th</sup> day | 15 <sup>th</sup> day | 22 <sup>th</sup> day | 30 <sup>th</sup> day |                |         |
| <i>Live weight (kg)</i>                             |                                  |                     |                      |                      |                      |                |         |
| MS                                                  | 30.7                             | 30.4                | 30.1                 | 29.2                 | 30.2                 | 30.1±1.6       |         |
| PPS                                                 | 30.6                             | 30.4                | 30.2                 | 30.3                 | 30.9                 | 30.5±2.3       |         |
| Period mean ± SEM                                   | 30.7±3.3                         | 30.4±3.2            | 30.2±3.2             | 29.8±3.3             | 30.6 ± 3.2           | 30.3±1.4       | >0.05   |
| p-value                                             |                                  |                     |                      |                      |                      | >0.05          | >0.05   |
| <i>Metabolic Body weight (kg; W<sup>0.75</sup>)</i> |                                  |                     |                      |                      |                      |                |         |
| MS                                                  | 13.0                             | 12.8                | 12.8                 | 12.5                 | 12.8                 | 12.8±0.5       |         |
| PPS                                                 | 12.8                             | 12.7                | 12.7                 | 12.7                 | 12.9                 | 12.7±0.7       |         |
| Period mean ± SEM                                   | 12.9±1.1                         | 12.8±1.0            | 12.7±1.0             | 12.6±1.1             | 12.8±1.1             | 12.8±0.5       | >0.05   |
| p-value                                             |                                  |                     |                      |                      |                      | >0.05          | >0.05   |

\*MS, Maize silage fed group; PPS, Potato peel silage fed group.

Supplementary Table 2. Impact of feeding potato peel silage on feed intake and nutrient digestibility during metabolism trial

| Attribute*                        | Groups#    |             | SEM   | p-value |
|-----------------------------------|------------|-------------|-------|---------|
|                                   | MS         | PPS         |       |         |
| <i>Dry matter intake</i>          |            |             |       |         |
| g/d                               | 1273±41.87 | 1264±70.05  | 38.93 | >0.05   |
| % Live weight                     | 4.61±0.51  | 4.83±0.83   | 0.47  | >0.05   |
| ^g/kg W <sup>0.75</sup>           | 105±7.75   | 107±11.76   | 6.72  | >0.05   |
| <i>Organic matter intake</i>      |            |             |       |         |
| g/d                               | 1188±39.50 | 1167±64.12  | 36.05 | >0.05   |
| % Live Weight                     | 4.30±0.48  | 4.46±0.77   | 0.43  | >0.05   |
| ^g/kg W <sup>0.75</sup>           | 98.00±7.19 | 99.00±10.92 | 6.23  | >0.05   |
| <i>Nutrient digestibility (%)</i> |            |             |       |         |
| DM                                | 62.04±1.99 | 63.37±2.43  | 1.55  | >0.05   |
| OM                                | 63.98±2.03 | 64.50±2.11  | 1.41  | >0.05   |
| CP                                | 68.70±3.63 | 65.43±2.42  | 2.50  | >0.05   |
| EE                                | 72.27±2.35 | 69.47±3.38  | 3.06  | >0.05   |
| CF                                | 53.54±3.21 | 51.34±2.89  | 2.79  | >0.05   |
| NFE                               | 73.34±1.56 | 80.63±1.36  | 1.07  | <0.05   |
| NDF                               | 59.44±3.06 | 66.06±2.53  | 2.67  | <0.05   |
| ADF                               | 48.43±3.15 | 47.76±3.03  | 2.71  | >0.05   |

\*DM, Dry matter; OM, Organic matter; CP, Crude protein; EE Ether extract; TA, Total Ash; AIA, Acid insoluble ash; CF, Crude fibre; NFE, Nitrogen free extract; NDF, Neutral detergent fibre; ADF, Acid detergent fibre. <sup>^</sup>W<sup>0.75</sup>, Metabolic body weight. #MS, Maize silage fed group; PPS, Potato peel silage fed group.