Complementary material about PCA.

**Figure S1.** Principal components analysis (PCA) projection of the three principal components. NE- (Non-extruded formulations), Ex- (Extruded formulations). Parameters: protein, soluble protein, protein digestibility. Fat, carbohydrates, total starch. Amylose, amylopectin, total dietary fibre (TDF), insoluble dietary fibre (IDF), soluble dietary fibre (SDF), ash, moisture, dry matter.

### Table of Compounds Weights in relation to PC1, PC2 and PC3

<table>
<thead>
<tr>
<th>Compound</th>
<th>Principal Component 1</th>
<th>Principal Component 2</th>
<th>Principal Component 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Starch</td>
<td>0.194602</td>
<td>0.402248</td>
<td>-0.171141</td>
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<tr>
<td>Amylose</td>
<td>-0.300404</td>
<td>0.262723</td>
<td>0.0463701</td>
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<tr>
<td>Amylopectin</td>
<td>0.300411</td>
<td>-0.262788</td>
<td>-0.0461096</td>
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<tr>
<td>Protein</td>
<td>-0.108111</td>
<td>-0.449375</td>
<td>0.0767944</td>
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<td>TDF</td>
<td>-0.300243</td>
<td>-0.274211</td>
<td>0.0162384</td>
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<tr>
<td>IDF</td>
<td>-0.31614</td>
<td>-0.219139</td>
<td>-0.248625</td>
</tr>
<tr>
<td>SDF</td>
<td>0.0778932</td>
<td>-0.00518652</td>
<td>0.912532</td>
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<tr>
<td>Soluble Protein</td>
<td>-0.350645</td>
<td>0.115499</td>
<td>0.112554</td>
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<tr>
<td>Fat</td>
<td>-0.360183</td>
<td>-0.0235172</td>
<td>-0.0579057</td>
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<tr>
<td>Dry matter</td>
<td>-0.30343</td>
<td>0.260907</td>
<td>0.165449</td>
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<tr>
<td>Ash</td>
<td>-0.138814</td>
<td>-0.475315</td>
<td>-0.00687278</td>
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<tr>
<td>Protein Digestibility</td>
<td>0.281536</td>
<td>-0.258864</td>
<td>0.106891</td>
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<tr>
<td>Carbohydrate</td>
<td>0.361503</td>
<td>-0.00602335</td>
<td>-0.104287</td>
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### Table of Formulations Weights in relation to PC1, PC2 and PC3.

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<tr>
<th>Formulation</th>
<th>Principal Component 1</th>
<th>Principal Component 2</th>
<th>Principal Component 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>NE- 20.1.P</td>
<td>-0.0387954</td>
<td>2.61058</td>
<td>1.19859</td>
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<tr>
<td>NE- 20.2.P</td>
<td>-0.445574</td>
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<td>NE- 20.3.P</td>
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<td>1.40746</td>
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<tr>
<td>NE- 40.1.P</td>
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<td>0.422732</td>
<td>0.267783</td>
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<tr>
<td>NE- 40.2.P</td>
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<td>-0.232058</td>
<td>-0.409491</td>
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<tr>
<td>NE- 40.3.P</td>
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<tr>
<td>Ex- 20.1.P</td>
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<tr>
<td>Ex- 20.2.P</td>
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<td>Ex- 20.3.P</td>
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<td>Ex- 40.1.P</td>
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<tr>
<td>Ex- 40.2.P</td>
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<td>-0.144141</td>
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<tr>
<td>Ex- 40.3.P</td>
<td>1.84206</td>
<td>-3.08092</td>
<td>1.41891</td>
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