Restrict - CKD™ Canine wet diet is a phosphorus and protein restricted diet with highly digestible ingredients and excellent palatability to support dogs in IRIS CKD (chronic kidney disease) stages 2 to 4, dogs with liver failure, and dogs with severe proteinuria. Antioxidants in the sweet potato and turkey help support the immune system\(^1\), and inclusion of prebiotics (FOS) helps maintain gastrointestinal health\(^2\). Moderate restriction of sodium allows the diet to be used in dogs with hypertension, heart failure, and liver failure\(^3,4\). Higher levels of n-3 fatty acids are present in the diet which may provide anti-inflammatory effects in patients with heart disease and inflammatory renal and liver diseases\(^5,6,7\). Restricted copper content makes Restrict - CKD™ appropriate for use in copper storage diseases of the liver\(^8,9,10\).

### Features:
- Reduced levels of highly digestible protein
- Phosphorus restriction
- Sodium restriction
- Copper restriction
- Excellent palatability
- High digestibility
- Added prebiotics (fructooligosaccharides) to maintain gastrointestinal health
- Fish oil inclusion to provide higher levels of n-3 fatty acids (EPA/DHA/DPA)

### Therapeutic Indications:
- Renal disease-IRIS 3-4 (+/- 2) \(^{11,12,13,14}\)
- Proteinuria and protein losing nephropathy\(^{14,15,16}\)
- Heart failure (any cause), including patients with concurrent renal disease\(^5,17\)
- Liver disease due to porto-systemic shunts\(^8,18\)
- Liver failure – any cause\(^8,18\)
- Copper storage diseases of the liver\(^19,20,21,22\)

### INGREDIENTS (WET):
Turkey broth, sweet potatoes, potato starch, turkey, turkey liver, sunflower oil, dried egg whites, fish oil (preserved with mixed tocopherols), guar gum, calcium carbonate, vitamins and minerals (choline chloride, magnesium oxide, zinc amino acid complex, vitamin E supplement, iron amino acid complex, thiamine mononitrate, niacin, manganese amino acid complex, copper amino acid complex, vitamin A supplement, pyridoxine hydrochloride, d-calcium pantothenate, riboflavin, sodium selenite, folic acid, vitamin B12 supplement, calcium iodate, vitamin D3 supplement, biotin), potassium chloride, fructooligosaccharides, taurine, tricalcium phosphate.
NUTRITIONAL DETAILS (Calculated **) & AMOUNT/CAN:
Wet (400g)

ME: 1042 kcal/kg % as is; 4242 kcal/kg % dry weight
Approximate kcal/can = 417

Percentage of Metabolizable Energy from:
Protein: 15%
Fat: 38.3%
CHO-NFE: 46.6%

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>% As is</th>
<th>% DM (24.59 %)</th>
<th>G/1000 kcal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein</td>
<td>4.48</td>
<td>18.22</td>
<td>42.96</td>
</tr>
<tr>
<td>Fat</td>
<td>4.70</td>
<td>19.13</td>
<td>45.10</td>
</tr>
<tr>
<td>Crude Fibre</td>
<td>0.30</td>
<td>1.25</td>
<td>2.95</td>
</tr>
<tr>
<td>CHO-NFE#</td>
<td>13.89</td>
<td>56.52</td>
<td>133.24</td>
</tr>
<tr>
<td>Calcium</td>
<td>0.21</td>
<td>0.85</td>
<td>2.02</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>0.05</td>
<td>0.22</td>
<td>0.54</td>
</tr>
<tr>
<td>Potassium</td>
<td>0.25</td>
<td>1.03</td>
<td>2.44</td>
</tr>
<tr>
<td>Sodium</td>
<td>0.08</td>
<td>0.27</td>
<td>0.63</td>
</tr>
<tr>
<td>Magnesium</td>
<td>0.02</td>
<td>0.08</td>
<td>0.20</td>
</tr>
<tr>
<td>Copper (mg/kg)</td>
<td>1.73 mg/kg</td>
<td>7.04 mg/kg</td>
<td>1.66 mg</td>
</tr>
<tr>
<td>EPA/DHA/DPA*</td>
<td>0.19</td>
<td>0.81</td>
<td>1.90</td>
</tr>
</tbody>
</table>

#Carbohydrate Nitrogen Free Extract = CHO-NFE
*Omega -3 fatty acids: eicosapentaenoic acid/docosahexaenoic acid/docosapentaenoic acid
**The values listed represent calculated numbers and are based on thorough analysis of diet ingredients; some lot to lot variation due to ingredient related factors is expected. Strict attention to nutrients of clinical concern is upheld with quality assurance analyses prior to product release.

FEEDING GUIDELINES
• Always follow your veterinarian’s instructions, as feeding amounts can vary by as much as 30 % between dogs.23,24
• Avoid free feeding (unless there is a specific medical reason); it may promote obesity over time.25
• The tables below can be used to estimate the amount to feed using the dog’s optimum weight.
• Always introduce new foods gradually over 5-7 days by substituting larger amounts of the new food in place of the old diet.
Feeding guidelines are from the AAHA 2010 Nutritional Assessment Guidelines for Dogs and Cats. The above tables should be used as a starting guideline and the actual amounts fed may need to be increased or decreased based on each dog’s individual energy requirement. Energy requirements will vary depending upon such factors as age, breed, gender and neuter status, activity level, and underlying disease state.

**NUTRITIONAL ADEQUACY FOR DIFFERENT LIFE STAGES**
This diet has been formulated to meet the needs of dogs with renal, liver and cardiac concerns. As such the diet should be fed under the supervision of a veterinarian.

**COMPATIBLE TREATS**
ALL S.I.T. and Rayne Apple and pumpkin biscuits. Ensure that energy intake from treats does not exceed 10% of daily kcal intake, and that the total kcal from treats is subtracted from the calculated daily kcal requirement when determining the volume of diet to be fed.

**HELP**
For veterinarians or veterinary clinic staff wanting to discuss individualized patient recommendations, obtain additional diet information or specific values, or any other questions, please call or email for a consult. One of the Rayne clinical consult team members will be pleased to communicate with you: consults@raynenutrition.com

<table>
<thead>
<tr>
<th>Weight Class</th>
<th>Lb</th>
<th>Kg</th>
<th>Cans to Feed Per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 10</td>
<td>2.3 – 4.6</td>
<td>½ - ¾</td>
<td></td>
</tr>
<tr>
<td>10 - 20</td>
<td>4.6 – 9.1</td>
<td>¾ - 1 ¼</td>
<td></td>
</tr>
<tr>
<td>20 - 30</td>
<td>9.1-13.6</td>
<td>1 ¼ - 1½</td>
<td></td>
</tr>
<tr>
<td>30 - 40</td>
<td>13.6 - 18.2</td>
<td>1½ - 2</td>
<td></td>
</tr>
<tr>
<td>40 - 50</td>
<td>18.2 - 22.7</td>
<td>2 - 2½</td>
<td></td>
</tr>
<tr>
<td>50 - 60</td>
<td>22.7- 27.3</td>
<td>2 ½ - 2 ¾</td>
<td></td>
</tr>
<tr>
<td>60 - 70</td>
<td>27.3 - 31.8</td>
<td>2 ¾ - 3 ¼</td>
<td></td>
</tr>
<tr>
<td>70 - 80</td>
<td>31.8 - 36.4</td>
<td>3 ¼ - 3 ½</td>
<td></td>
</tr>
<tr>
<td>80 - 90</td>
<td>36.4 - 40.9</td>
<td>3 ½ - 3 ¾</td>
<td></td>
</tr>
<tr>
<td>90 - 100</td>
<td>40.9 - 45.5</td>
<td>3 ¾ - 4 ¼</td>
<td></td>
</tr>
</tbody>
</table>
References to support the above clinical indications and aid client discussions about the benefits of the above veterinary exclusive diets include:


Last updated: December 1, 2015 (2008)