



Joint and Skin Support is formulated to protect connective tissue, improve joint mobility, reduce joint pain and inflammation, and support the skin barrier by addressing the following key nutritional factors:

- Incorporates bioavailable nutraceuticals: Natural Hydrolyzed Collagen, Hyaluronic Acid, and Chondroitin Sulfate
- Novel protein: USDA pork tenderloin
- Low omega 6:3 ratio to reduce inflammation and support the skin barrier
- Made 100% with ingredients approved for human consumption
- Can also be used to address gastric pathology, including IBD/IBS, or food allergy/intolerance

“As a board certified veterinary dermatologist, I find JustFoodForDogs ideal for patients with specific health needs. It’s a convenient option for owners seeking a healthy, whole food alternative to kibble that don’t have the time or expertise to create a consistent, nutritionally balanced diet. JFFD offers owners all the benefits of a consistent, home cooked diet without the risk of deficiency, contamination or the hours required to do the job right.”

— Dr. John Angus DVM DACVD

TYPICAL ANALYSIS: Joint & Skin Support

| Nutrient | /kg As Fed | /kg Dry Matter | /1000 kcals |
|--------------------------|------------------------------|------------------------------|------------------------------|
| Protein | 101.89 g | 412.30 g | 92.30 g |
| Total lipid (fat) | 33.47 g | 135.44 g | 30.32 g |
| Ash | 15.58 g | 63.03 g | 14.11 g |
| Carbohydrates (NFE) | 96.19 g | 389.23 g | 87.13 g |
| Fiber, total dietary | 17.34 g | 70.15 g | 15.70 g |
| Sugars, total | 13.23 g | 53.52 g | 11.98 g |
| Calcium, Ca | 1580.59 mg | 6396.02 mg | 1.43 g |
| Iron, Fe | 10.31 mg | 41.74 mg | 9.34 mg |
| Magnesium, Mg | 334.92 mg | 1355.28 mg | 0.30 g |
| Phosphorus, P | 1431.79 mg | 5793.89 mg | 1.30 g |
| Potassium, K | 2594.31 mg | 10498.20 mg | 2.35 g |
| Sodium, Na | 312.95 mg | 1266.40 mg | 0.28 g |
| Zinc, Zn | 19.53 mg | 79.04 mg | 17.69 mg |
| Copper, Cu | 1.97 mg | 7.97 mg | 1.78 mg |
| Manganese, Mn | 2.86 mg | 11.59 mg | 2.59 mg |
| Selenium, Se | 133.87 $\hat{A}\mu\text{g}$ | 541.73 $\hat{A}\mu\text{g}$ | 0.12 mg |
| Iodine, I | 0.28 mg | 1.15 mg | 0.26 mg |
| Vitamin C | 62.59 mg | 253.28 mg | 56.70 mg |
| Vitamin B1 | 13.01 mg | 52.65 mg | 11.79 mg |
| Vitamin B2 | 11.21 mg | 45.38 mg | 10.16 mg |
| Vitamin B3 | 36.24 mg | 146.66 mg | 32.83 mg |
| Vitamin B5 | 11.23 mg | 45.44 mg | 10.17 mg |
| Vitamin B6 | 12.63 mg | 51.11 mg | 11.44 mg |
| Folate | 251.78 $\hat{A}\mu\text{g}$ | 1018.85 $\hat{A}\mu\text{g}$ | 0.23 mg |
| Choline | 479.66 mg | 1940.98 mg | 434.50 mg |
| Vitamin B12 | 11.26 $\hat{A}\mu\text{g}$ | 45.57 $\hat{A}\mu\text{g}$ | 10.20 $\hat{A}\mu\text{g}$ |
| Vitamin A, IU | 40997.43 IU | 165900.93 IU | 37138.26 IU |
| Vitamin A, RAE | 2052.49 $\hat{A}\mu\text{g}$ | 8305.66 $\hat{A}\mu\text{g}$ | 1859.29 $\hat{A}\mu\text{g}$ |
| Vitamin E | 110.06 mg | 445.36 mg | 124.62 IU |
| Vitamin D | 175.73 IU | 711.09 IU | 159.18 IU |
| Vitamin K | 1117.44 $\hat{A}\mu\text{g}$ | 4521.85 $\hat{A}\mu\text{g}$ | 1012.25 $\hat{A}\mu\text{g}$ |
| EPA - DHA | 1.23 g | 4.95 g | 1.11 g |
| Linoleic Acid | 5.51 g | 22.29 g | 4.99 g |
| Arachidonic Acid | 0.19 g | 0.78 g | 0.17 g |
| Linolenic Acid | 0.51 g | 2.07 g | 0.46 g |
| Tryptophan | 1.10 g | 4.46 g | 1.00 g |
| Threonine | 4.52 g | 18.29 g | 4.10 g |
| Isoleucine | 4.88 g | 19.74 g | 4.42 g |
| Leucine | 8.31 g | 33.61 g | 7.52 g |
| Lysine | 8.84 g | 35.76 g | 8.01 g |
| Methionine - Cystine | 3.97 g | 16.06 g | 3.59 g |
| Phenylalanine - Tyrosine | 7.92 g | 32.05 g | 7.17 g |
| Valine | 5.20 g | 21.03 g | 4.71 g |
| Arginine | 6.92 g | 28.02 g | 6.27 g |
| Histidine | 4.13 g | 16.72 g | 3.74 g |
| Taurine | 0.18 g | 0.74 g | 0.17 g |

Joint and Skin Support Vet Directed Diet 14 oz, 72 oz Fresh Frozen



DIET OVERVIEW

Joint and Skin Support incorporates nutraceuticals that promote healthy joints and connective tissues, and improve skin dryness, in human studies: Natural hydrolyzed collagen, chondroitin sulfate, and hyaluronic acid. This recipe is a pork and quinoa based, novel protein, low residue, select ingredient diet formulated to meet the key nutritional factors for the nutritional management of **Joint Disease, Atopic Dermatitis, Pruritus, Chronic Gastroenteritis, and Inflammatory Bowel Disease** in dogs:

- Highly Digestible, Hypoallergenic Protein Source
- High Quality, Hypoallergenic Carbohydrate Sources
- Increased Anti-inflammatory ingredients, including Kale and Omega 3 Fatty Acids^{1, 2, 3}
- Formulated with Natural Hydrolyzed Collagen, Chondroitin Sulfate, Hyaluronic Acid
- Balanced for long-term feeding under veterinary supervision
- High Protein, Low Fat

¹Baddaky-Taugbol B et al. (2005) A randomised, controlled, double-blinded, multicentre study on the efficacy of a diet rich in fish oil and borage oil in the control of canine atopic dermatitis. *Advances of Veterinary Dermatology* 5: 173-187.

²Campell KL (1993) Clinical use of fatty acid supplements in dogs. *Vet Derm* 4: 167-173.

³Wagner AE, Terschluessen AM, Rimbach G (2013) Health Promoting Effects of Brassica-Derived Phytochemicals: From Chemopreventative and Anti-Inflammatory Activities to Epigenetic Regulation. *Oxid Med Cell Longev*. 2013: 964539. doi: 10.1155/2013/964539.

DIET INDICATIONS

- Acquired Osteoarthritic Joint Disease
- Food allergy
- *Inflammatory bowel disease (IBD)^{4, 5}
- Congenital Joint Disease
- Atopic Dermatitis, Diet Elimination Trial
- *Irritable bowel syndrome (IBS)^{4, 5}

⁴German AJ, Hall EJ, Day MJ. Chronic intestinal inflammation and intestinal disease in dogs. *J Vet Intern Med*. 2003;17:8–20.

⁵World J Gastroenterol. 2010 March 7; 16(9): 1050-1056. Published online 2010 March 7. doi: 10.3748/wjg.v16.i9.1050.

* For best results, JFFD Probiotic Live is recommended as a supplement for these conditions. For full details on Probiotic Live, please visit: <http://justfoodfordogs.com/supplements/probiotic-super.html>

CONTRAINDICATIONS

- Sensitivity to any of the ingredients
- Growing puppies

INGREDIENTS

- **Pork Tenderloin** is inspected and approved by the USDA for human consumption. It is a complete and lean novel protein loaded with many essential vitamins (thiamin, niacin, B6, Riboflavin and B12) and minerals (phosphorus, potassium, selenium, zinc, calcium, iron and manganese).
- **Quinoa**, also known as the ancient grain, is actually more of a legume. It is a seed related to beets, chard and spinach, which contains many powerful anti-inflammatory phytonutrients. It is high in protein, fiber, magnesium, folate, phosphorus and manganese.
- **Kale** is high in antioxidants, including vitamin C, beta-carotene and manganese, and contains anti-inflammatory phytonutrients known to control the inflammatory process.
- **Carrots** are full of antioxidant compounds and are one of the richest sources of the pro-vitamin A carotenes. The antioxidant compounds help to prevent inflammatory disease
- **Fuji Apples** are palatable and high in antioxidants and fiber. Apples are also high in quercetin, an anti-inflammatory compound.
- **Coconut Oil** contains medium chain triglycerides (MCTs), which have been shown to increase the liver's efficiency at metabolizing energy from fat, helping to maintain dogs at their ideal weight.
- **Hydrolyzed Collagen:** Collagen is a complex structural protein mostly found in fibrous tissues such as tendons, ligaments, cartilage, bone and skin. Hydrolyzed collagen is a highly bioavailable form of collagen made up of amino acids needed to form collagen. Human research on hydrolyzed collagen has shown favorable effects on

INGREDIENTS (Cont.)

joint mobility and skin dryness.

- **Chondroitin Sulfate** is considered a promising treatment for osteoarthritis in humans and dogs. Clinical trials in humans and some animals suggest that chondroitin may have significant effects on joint mobility and pain when compared to placebo.
- **Hyaluronic Acid** is a natural structural component of skin and connective tissue of animals and humans. The key to this ingredient lies in its ability to retain moisture within the joint. It's considered to have a greater capacity to hold moisture than any other natural polymer, lubricating joints and providing comfort.
- **Olive Oil** is high in essential fatty acids including linoleic and linolenic acids. Olive oil has been shown to mimic the effects of anti-inflammatory drugs.
- **Icelandic Premium Fish Oil** is sourced direct from the world's cleanest, purest, and greenest sources. This exclusive supplement is pure, potent, natural and detoxified, and provides Omega 3 fatty acids in highly biologically available forms of EPA and DHA.
- **JFFD Nutrient Blend** is formulated specifically to meet NRC standards. The blend is compounded from 100% human grade nutraceuticals regulated by the FDA.

NUTRITIONAL SUITABILITY STATEMENT

This diet has been formulated for the long-term nutritional management of osteoarthritis, dermatology diseases, inflammatory bowel disease, and/or food allergy. For use under direction of a veterinarian.

| Caloric Information Compare to: Royal Canin® Mobility Support JS and Hills® j/d | | | | Guaranteed Analysis As Fed | | Dry Matter |
|--|------------------------------|-----------------------------|-------------------|-------------------------------|-------|---------------|
| Kcal/kg: 1104 | Kcal/oz: 31 | g/1000kcal: 906 | | Protein | 10.0% | 41.0% |
| Metabolizable Energy % from: | JFFD Joint & Skin Support | 2014 RC Mobility Support | 2014 Hills j/d | Fat | 3.0% | 12.0% |
| Protein | 37.0% | 25.0% | 16.0% | Carb | 7.0% | 31.0% |
| Fat | 37.0% | 19.0% | 39.0% | Fiber | 2.0% | 8.0% |
| Carbohydrates | 36.0% | 46.0% | 45.0% | Ash | 2.0% | 8.0% |
| | | | | Moisture | 76.0% | --- |
| Calcium-Phosphorus ratio: | | | | 1.1:1 | | |
| Omega 6: Omega 3 ratio: | | | | 3:1 | | |
| Nutritional Information averages according to USDA SR27 database. Nutritional information for items not available in USDA SR27 originates from manufacturers and independent lab analyses. | | | | | | |

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RECOMMENDED DAILY FEEDING GUIDE (feeding amount per day)

For best results it is recommended that pet owners weigh the food in ounces using a digital scale. If they do not have a scale, they may estimate volume in cups per the chart below. The chart is only a guide; always adjust feeding recommendations based on careful monitoring of the weight of the patient.

| Wt (lbs) | Oz (wt) | Cups (est) | Wt (lbs) | Oz (wt) | Cups (est) |
|----------------|---------|------------|------------------|---------|------------|
| 5 - 10 | 5 - 9 | 0.75 – 1.0 | 75 - 80 | 41 - 43 | 5.0 - 5.5 |
| 15 - 20 | 12 - 15 | 1.5 – 2.0 | 85 - 90 | 45 - 47 | 5.75 |
| 25 - 30 | 18 - 20 | 2.25 – 2.5 | 95 - 100 | 49 - 51 | 6.0 – 6.25 |
| 35 - 40 | 23 - 26 | 3.0 - 3.25 | 110 - 115 | 54 - 56 | 6.75 – 7.0 |
| 45 - 50 | 28 - 30 | 3.5 - 3.75 | 120 - 125 | 58 - 60 | 7.25 – 7.5 |
| 55 - 60 | 32 - 35 | 4.0 – 4.25 | 130 - 135 | 62 - 64 | 7.75 – 8.0 |
| 65 - 70 | 36 - 39 | 4.5 – 4.75 | 140 - 145 | 65 - 67 | 8.25 - 8.5 |