

- Carprofen Sterile Injectable Solution is indicated for the relief of pain and inflammation associated with osteoarthritis and for the control of postoperative pain associated with soft tissue and orthopedic surgeries in dogs.
- Therapeutically equivalent to the pioneer drug so you can expect the same safety and efficacy.
- Backed by the newly combined Veterinary Technical Services and Sales Support Teams of both Dechra and Putney.
- Available as a 50 mg/mL solution in 20 mL vials.

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**Important Safety Information:** As with all drugs, side effects may occur. For subcutaneous use in dogs only. Serious adverse reactions associated with this drug class can occur without warning and in rare situations result in death. As a class, cyclooxygenase inhibitory NSAIDs may be associated with gastrointestinal, renal, and hepatic toxicity. Appropriate laboratory tests to establish hematological and serum biochemical baseline data prior to, and periodically during, administration of any NSAID should be considered. Concomitant use of Carprofen Sterile Injectable Solution with other anti-inflammatory drugs, such as other NSAIDs or corticosteroids, should be avoided. Owners should be advised to discontinue Carprofen Sterile Injectable Solution therapy and contact their veterinarian immediately if signs of intolerance are observed. Refer to the prescribing information for complete details or visit www.dechra-us.com.

ANADA 200-522, Approved by FDA CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian. Dechra is a registered trademark of Dechra Pharmaceuticals PLC.

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### ANADA 200-522, Approved by FDA

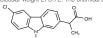
### Carprofen Sterile Injectable Solution

#### 50 mg/mL Non-steroidal anti-inflammatory drug

## Por subcutaneous use in dogs only

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian

DESCRIPTION: Carprofen Sterile Injectable Solution is a sterile solution containing carprofen, a non-steroidal anti-inflammatory drug (NSAID) of the propionic acid class that includes ibuprofen, naproxen, and ketoprofen. Carprofen is the non-proprietary designation for a substituted carbacole, 6-choro c-methyl-9-karbacole 2-acetic acid. The empirical formula is C<sub>15</sub>H<sub>12</sub>OINO<sub>2</sub> and molecular weight 273.72. The chemical structure of carprofen is:



Each mL of Carprofen Sterile Injectable Solution contains 50.0 mg carprofen, 30.0 mg arginine, 88.5 mg glycocholic acid, 169.0 mg lecithin, 10.0 mg benzyl alcohol, 6.17 m, sodium hydroxide, with additional sodium hydroxide and hydrochloric acid as needed to adjust pH, and water for injection.

CLINICAL PHARMACOLOGY: Carprofen is a non-narcotic, non-steroidal anti-inflammatory agent with characteristic analgesic and antipyretic activity approximately equipotent to indomethacin in animal models.1

The mechanism of action of carporlen, like that of other NSAIDs, is believed to be associated with the inhibition of cyclooxygenase activity. Two unique cyclooxygenases have been described in mammals? The constitutive cyclooxygenase, COX-1, synthesizes prostaglandins necessary for normal gastoritestinal and renal function. The inducible cyclooxygenase, COX-2, generates prostaglandins involved in inflammation. Inhibition of COX-1 is thought to be associated with gastrointestinal and renal function. The inducible cyclooxygenase, coX-2, generates prostaglandins involved in inflammation. Inhibition of COX-2 provides anti-inflammatory activity. The specificity of a particular NSAID for COX-2 versus COX-1 and vary from species to species.<sup>3</sup> In an *in vitro* study using carine cell cultures, carprofen demonstrated selective inhibition of COX-2 versus COX-1.<sup>4</sup> Clinical relevance of these data has not been shown. Carporten has also been shown to inhibition of exercal prostaglandins in two inflammatory cells ystems: rat polymorphonuclear leukocytes (PMN) and human rheumatiol synovial cells, indicating inhibition of acute (PMN system) and chronic (synovial cell system) inflammatory reactions.<sup>1</sup> (synovial cell system) inflammatory reactions.

Several studies have demonstrated that carprofen has modulatory effects on both humoral and cellular immune responses.<sup>59</sup> Data also indicate that carprofen inhibits the production of osteoclast-activating factor (OAF), PGE<sub>1</sub>, and PGE<sub>2</sub> by its inhibitory effects on prostaglandin lineartheoici.

Based upon comparison with data obtained from intravenous administration, carprofen is rapidly and nearly completely absorbed (more than 90% blockavillable) when administered orally.<sup>10</sup> Peak blood plasma concentrations are achieved in 1–3 hours after oral administration of 1, 5, and 25 mg/kg to dogs.

The mean terminal half-life of carprofen is approximately 8 hours (range 4.5–9.8 hours) after single oral doses varying from 1–35 mg/kg of body weight. After a 100 mg single intravenous bolus dose, the mean elimination half-life was approximately 11.7 hours in the dog. Carprofen is more than 99% bound to plasma protein and exhibits a very small volume of distribution

Comparison of a single 25 mg dose in Beagle dogs after subcutaneous and oral comparable total angle 20 ing doe in Deagle dogs and subclanaire subclanaire subclanaire administration results in a slower rate of drug input (as reflected by mean peak observed concentrations) but comparable total drug absorption within a 12 hour dosing interval (as reflected by area under the curve from hours zero to 12 postdose).

Carprofen is eliminated in the dog primarily by biotransformation in the liver followed by rapid excretion of the resulting metabolites (the ester glucuronide of carprofen and the ether glucuronides of 2 phenolic metabolites, 7-tydroxy carprofen and 8-tydroxy carprofen and 9-tydroxy carprofen and 8-tydroxy carprofen

INDICATIONS: Carprofen Sterile Injectable Solution is indicated for the relief of pain and inflammation associated with osteoarthritis and for the control of postoperative pain associated with soft tissue and orthopedic surgeries in dogs.

CONTRAINDICATIONS: Carprofen Sterile Injectable Solution should not be used in dogs exhibiting previous hypersensitivity to carprofen.

WARNINGS: Keep out of reach of children. Not for human use. Consult a physician in cases of accidental human exposure. For use in dogs only. Do not use in cats

All dogs should undergo a thorough history and physical examination before initiation of For Oges soluble Undergot a forboard instanty and private scanneador bender initiation to KABD therapy. Appropriate laborationy tests to establish hermatological and securit biochemical baseline data prior to, and periodically during, administration of any NSAID should be considered. Owners should be advised to observe for signs of potential drug toxicity (see Adverse Reactions, Animal Safety and Post-Approval Experience).

PRECAUTIONS: As a class, cyclooxygenase inhibitory NSAIDs may be associated with gastrointestinal, renal and hepatic toxicity. Effects may result from decreased prostaglandin gastrointestinal, renal and hepaite toxiólly. Effects may result from décreased prostaglandin production and inhibition of the enzyme cyclocoxygenase which is responsible for the tornation of prostaglandins from arachidonic acid.<sup>1114</sup> When NSAIDs inhibit prostaglandins that cause inflammation they may also inhibit those prostaglandins which maintain normal homeostatic luricon. These anti-prostaglandin effects may result in chincally significant disease in patients with underlying or pre-existing disease more often than in healthy patients.<sup>1214</sup> NSAID therapy could unmask could disease which has previously been undergenosed due to the absence of apparent clinical signs. Patients with underlying renal disease bir example, may experience execution or decompensation of their renal disease while on NSAID therapy.<sup>1134</sup> The use of parentent fluids during surgery should be considered to reduce the potential risk of renal complications when using NSAIDs perioperatively.

Carprofen is an NSAID, and as with others in that class, adverse reactions may occur with its use. The most frequently reported effects have been gastrointestinal signs. Events involving suspected rena, hematologic, neurologic, dermatologic, and hepatic effects have also been reported. Patients at greatest risk for renal toxicity are those that are dehydrated, on concornitant diurelic therapy, or those with renal, cardiovascular, and/or hepatic dystunction. Concurrent administration of potentially nephrotoxic drugs should be approached cautiously, with appropriate monitoring. Concornitant use of Carprofen Sterile injectable Solution with other anti-inflammatory drugs, such as other NSAIDs or confictostericids, should be avoided because of the potential increase of adverse reactions, including gastrointestinal uicerations and/or perforations. Sensitivity to drug-associated adverse reactions varies with the individual patient. Dogs that have experienced adverse reactions from one NSAID may experience adverse reactions from another NSAID. Carprofen treatment was not associated with renal toxicity or gastrointestinal uiceration in well-controlled safety studies of up to ten times the dose in healthy dogs. As with any parenterally injected product, good hygienic procedures should be used when administering Carprofen Sterile hijectable Solution. It is suggested to use different sites for additional injections. Carorofen is an NSAID, and as with others in that class, adverse reactions may occur with its use different sites for additional injections.

Carprofen is not recommended for use in dogs with bleeding disorders (e.g., Von Willebrand's disease), as safety has not been established in dogs with these disorders. The safe use of carprofen in animals less than 6 weeks of age, pregnant dogs, dogs used for breeding purposes, or in lactating bitches has not been established. Safety has not been established for IV or IM administration. Studies to determine the activity of carprofen when determine the commendent with other extendent bearders determine the activity of the business of the based of the business of the activity of the business of the business of the business of the business of the based of the business of th administered concomitantly with other protein-bound or similarly metabolized drugs have not been conducted. Drug compatibility should be monitored closely in patients requiring additional therapy. Such drugs commonly used include cardiac, anticonvulsant and behavioral medications. It has been suggested that treatment with carprofen may reduce the level of inhalant anesthetics needed.<sup>15</sup> If additional pain medication is warranted after administration of the total daily dose of Carprofen Sterile Injectable Solution, alternative analgesia should be considered. The use of another NSAID is not recommended. Consider appropriate washout times when switching from one NSAID to another or when switching from corticosteroid use to NSAID

### INFORMATION FOR DOG OWNERS:

Carprofen Sterile Injectable Solution, like other drugs of its class, is not free from adverse reactions. Owners should be advised of the potential for adverse reactions and be informed of the clinical signs associated with drug intolerance. Adverse reactions may include decreased appetite, vomiling, diarrhea, dark or tary stools increased water consumption, increased urination, pale ums due to anemia, yellowing of guns, skih or while of the gude due to jaurdice, lethargy, incoordination, seizure, or behavioral changes. Serious adverse reactions associated with this drug class can occur without warning and in rare situations result in death (see Adverse Reactions). Owners should be advised to discontinue Carprofen Sterile Adverse reactions), owners should be advised to discontinani mediately if signs of infolectable Solution therapy and contact their veterinarian immediately if signs of intolerance are observed. The vast majority of patients with drug related adverse reactions have recovered when the signs are recognized, the drug is withdrawn, and veterinary care, if appropriate, is initiated. Owners should be advised of the importance of periodic follow up for all the signs of the signs are signed as the signs are recognized. dogs during administration of any NSAID.

FUTENCE REACTIONS: During investigational studies for the caplet formulation, no clinically significant adverse reactions were reported. Some clinical signs were observed during field studies (n=297) which were similar for captrofen- and placebo-treated dogs. Incidences of the following were observed in both groups: vomiting (4%), diarrhea (4%), changes in appetite (3%), lethrary (1.4%), behavioral changes (1%), and constipation (0.3%). The product vehicle served as control.

There were no serious adverse events reported during clinical field studies with once daily oral administration of 2 mg/b. The following categories of abnormal health observations were reported. The product vehicle served as control.

	Percentage of Dogs with Abnormal Health Observations Reported in Clinical Field Study (2 mg/lb once daily)	
Observation	Carprofen (n=129)	Placebo (n=132)
Inappetance	1.6	1.5
Vomiting	3.1	3.8
Diarrhea/Soft stool	3.1	4.5
Behavior change	0.8	0.8
Dermatits	0.8	0.8
PU/PD	0.8	_
SAP increase	7.8	8.3
ALT increase	5.4	4.5
AST increase	2.3	0.8
BUN increase	3.1	1.5
Bilirubinuria	16.3	12.1
Ketonuria	14.7	9.1

Chinical pathology parameters listed represent reports of increases from pre-treatment values; th use of clinical judgement is necessary to determine clinical relevance (refers also to table below)

There were no serious adverse events reported during clinical field studies for the injectable formulation. The following categories of abnormal health observations were reported. Saline served as placebo control.

### Percentage of Dogs with Abnormal Health Observations

Reported in Clinical Field Studies with the Injectable		
Observation*	Carprofen (n=168)	Placebo (n=163)
Vomiting	10.1	9.2
Diarrhea/soft stool	2.4	3.7
Dermatitis	0.6	1.2
Dysrhythmia	0.6	0.6
Swelling	0	1.2
Dehiscence	1.2	0
WBC increase	13.7	6.7

POST-Approval Experience: Although not all adverse reactions are reported, the following adverse reactions are based on voluntary post-approval adverse drug experience reporting. The categories of adverse reactions are listed by body system.

Gastrointestinal: Vomiting, diarrhea, constipation, inappetence, melena, hematemesis, gastrointestinal ulceration, gastrointestinal bleeding, pancreatitis.

Hepatic: Inappetence, vorniting, jaundice, acute hepatic toxicity, hepatic enzyme elevation, abnormal liver function test(s), hyperbilinubinemia, bilinubinuria, hypoalburniemia. Approximately one-fourth of hepatic reports were in Labrador Retrievers.

Neurologic: Ataxia, paresis, paralysis, seizures, vestibular signs, disorientation.

Uirary: Hematuria, polyuria, polydipsia, urinary incontinence, urinary tract infection, azoternia, acute renal failure, tubular abnormalities including acute tubular necrosis, renal tubular acidosis, glucosuria.

Behavioral: Sedation, lethargy, hyperactivity, restlessness, aggressiveness.

Hematologic: Immune-mediated hemolytic anemia, immune-mediated thrombocytopenia, blood loss anemia, epistaxis.

Dermatologic: Pruritus, increased shedding, alopecia, pyotraumatic moist dermatitis (hot spots), necrotizing panniculitis/vasculitis, ventral ecchymosis.

In rare situations, injection site reactions including necrosis, abscess and seroma formation, and granulomas have been reported with the injectable formulation.

Immunologic or hypersensitivity: Facial swelling, hives, erythema.

In rare situations, death has been associated with some of the adverse reactions listed above.

To report a suspected adverse reaction call 1-866-683-0660.

DOSAGE AND ADMINISTRATION: Carefully consider the potential benefits and risks of Carprofen Sterile Injectable Solution and other treatment options before deciding to use Carprofen Sterile Injectable Solution. Use the lowest effective dose for the shortest duration consistent with individual response. The recommended dosage for subcutaneous administration to dogs is 2 mg/l0 (4.4 mg/kg) of body weight dai). The total daily dose may be administered as either 2 mg/lo 0 tody weight once daily or divided and administered as 1 mg/lo (2.2 mg/kg) twice daily. For control of postoperative pain, administer approximately 2 hours before the procedure.

EFFECTIVENESS: Confirmation of the effectiveness of carorofen for the relief of pain and In remarkings, community of the electronic component of the relation of the anti-inflammation associated with osteorarthritis, and for the control of postporarity can associated with soft itsue and orthopedic surgeries was demonstrated in 7 placebo-controlled, masked studies examining the anti-inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of carprofen caplets and indentified in a subscription bondie of the inflammatory and analgesic effectiveness of the inflammatory an injectable in various breeds of dogs.

Separate placebo-controlled, masked, multicenter field studies confirmed the anti-inflammatory concerning places of early of carprofer capitels when dosed at 2 mg/b once daily or when divided and administered at 1 mg/b twice daily. In these two field studies, dogs diagnosed with osteoarthritis showed statistically significant overall improvement based on lameness evaluations by the veterinarian and owner observations when administered carprofen at labeled doses

Based upon the blood level comparison between subcutaneous and oral administration, carprofen effectiveness for osteoarthritis after dorsoscapular subcutaneous and oral administration should be similar, although there may be a slight delay in the onset of relief after subcutaneous injection.

Separate placebo-controlled, masked, multicenter field studies confirmed the effectiveness of carprolen injectable for the control of postoperative pain when dosed at 2 mg/lb once daily in various breeds of dogs. In these studies, dogs presented for ovariohysterectomy, cruciale values breeds to dogs in these storages, dogs presented to trading value and the storage of the

ANIMAL SAFETY: Laboratory studies in unanesthetized dogs and clinical field studies have demonstrated that carprofen is well tolerated in dogs after oral and subcutaneous administration.

In target animal safety studies, carprofen was administered orally to healthy Beagle dogs at 1, 3, and 5 mg/lb twice daily (1, 3 and 5 times the recommended total daily dose) for 42 consecutive days with no significant adverse reactions. Serum albumin for a single female dog receiving 5 mg/lb twice daily decreased to 2.1 g/dL after 2 weeks of treatment, returned to the pre-treatment value (2.6 g/dL) after 4 weeks of treatment, and was 2.3 g/dL at the final 6-week realization. We may be able to 2.5 g/dL after 2 weeks of treatment, and was 2.3 g/dL at the final 6-week realization. We the 6-week treatment period, black or bloody stools were observed in 1 dog (1 incident) treated with 1 mg/lb twice daily and in 1 dog (2 incident). treated with 3 mg/lb twice daily. Redness of the colonic mucosa was observed in 1 male that received 3 mg/lb twice daily.

Two of 8 dogs receiving 10 mg/b orally twice daily (10 times the recommended total daily dose) for 14 days exhibited hypoalbuminemia. The mean albumin level in the dogs receiving this dose was tower (2.38 g/dL) than each of 2 placebo control groups (2.88 and 2.93 g/dL, respectively). Three incidents of black or bloody stool were observed in 1 dog. Five of 8 dogs respectively. In the induction of back with a second start we are back with the of other exhibited reddened areas of duaderal muccosa no gross pathologic examination examination of these areas revealed no evidence of ulceration, but did show minimal congestion of the lamina propria in 2 of the 5 dogs.

In separate safety studies lasting 13 and 52 weeks, respectively, dogs were administered orally up to 11.4 mg/lt/day (5.7 times the recommended total daily dose of 2 mg/h) of carprofen. In both studies, the drug was well tolerated clinically by all of the animals. No gross or histologic changes were seen in any of the treated animals. In both studies, dogs receiving the highest doses had average increases in serum L-alanine aminotransferase (ALT) of approximately 20 IU

In the 52 week study, minor dermatologic changes occurred in dogs in each of the treatment groups but not in the control dogs. The changes were described as slight redness or rash and were diagnosed as non-specific dermatitis. The possibility exists that these mild lesions were treatment related, but no doce relationship was observed.

treatment related, but no dose relationship was observed. Clinical field studies were conducted with 549 dogs of different breeds at the recommended oral doses for 14 days (297 dogs were included in a study evaluating 1 mg/lb twice daily and 252 dogs were included in a separate study evaluating 2 mg/lb once daily). In both studies the drug was clinically well tolerated and the incidence of clinical adverse reactions for carproten-treated animals was no higher than placebo-treated animals (bacebo contained inactive ingredients found in carprofen). For animals receiving 1 mg/lb twice daily, and post-treatment seum ALT values were 11 LU greater and 9 Lies sthan pre-treatment values for dogs receiving carprofen and placebo, respectively. Differences were not statistically significant. For animals receiving 2 mg/lb once daily, the mean post-treatment values for dogs receiving carprofen and placebo, respectively. In the latter study, 3 carprofen-treated dogs developed a 3-fold or greater increase in (L1) and/or (AST) during the course of therapy. One placebo-treated dog had a greater than 2-fold increase in ALT. None of these animals showed clinical signs associated with the latoratory value changes. Changes in dirical significant. The 1 mg/lb twice daily course of therapy was repeated as needed at 2-week intervals in 244 dogs, some for as long as 5 years.

Clinical field studies were conducted on 331 dogs undergoing orthopedic or soft tissue surgery. Dogs were administered 2 mg/lb of Carprofen subcutaneously two hours prior to surgery and once daily thereafter, as needed, for 2 days (soft tissue surgery) or 3 days (orthopedic surgery). Carprofen was well tolerated when used in conjunction with a variety of anesthetic-related drugs. The type and severity of anormal health observations in carprofen-and placebo-treated animals were approximately equal and few in number (see Adverse Reactions). The most frequent abnormal health observation was vomiting and was observed at approximately the same frequency in carprofen- and placebo-treated animals. Changes in dinically significant. The mean post-treatment serum ALT values were 8.4 U and 7.0 U less than pre-treatment AST values were 1.5 iU and 0.7 iU greater for dogs receiving carprofen and placebo, respectively. placebo, respectively

Swelling and warmth were associated with the injection site after subcutaneous administration of carprofen injectable. These findings were not clinically significant. Long term use of the injectable has not been studied.

**STORAGE:** Store under refrigeration  $2^{\circ}$ -8°C (36°-46°F). Once broached, product may be stored at temperatures up to 25°C (77°F) for 28 days.

HOW SUPPLIED: Carprofen Sterile Injectable Solution is supplied in 20-mL, amber, glass,

### **REFERENCES:**

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For a copy of the Material Safety Data Sheet (MSDS) or to report adverse reactions call Putney, Inc. at 1-866-683-0660.

Manufactured For: Putney, Inc., Portland, ME 04101 USA 1-866-683-0660

PUTNEY

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