

ANTIPARASITIC PRODUCTS
STUDY FOR DOGS AND CATS

The present study has the aim of making known the characteristics and effect of Antiparasitic products that, at present, may be acquired assigned to dogs and cats delousing besides the location where they live.

The study is restricted to collect worded data in sheets and packings of the products. Relative data to its chemical composition have been obtained, composition averages, application, product use and its effects, both for the animal and the owners besides environment.

The study collects those products commercialized at present: collars, both with gas and without it, spray, emulsions, pipettes, blisters and Catandog's antiparasitic plate.

The Study offers the following data:

ANTIPARASITIC PRODUCTS

PRODUCT	LABORATORY	COMPOSITION
Stockade(Spray)	Esteve Vet. Dr. Esteve's Laboratory	0,5% Permetrina; 1% Butoxide piperonyl
Ectaz (Emulsion)	Hoeschst Rousseel Vet.	Amitraz 125 gr.
Sifrotol (Spray)	Esteve Vet.	S-Metropo 0,10%,permetrina 0,63% Excipient c.s.p. 80 ml.
Defendog (Spray)	Virbac	Permetrina 2 gr.Excipient c.s.p. 100 ml
Indorex (Spray)	Virbac	Tecnic Permetrina 25 gr. Piperonyl butoxide 5 gr. Fenoxycarb 50 mg. Excipient c.s.p. 500 ml.
Prevender(Collar For dogs)	Virbac	Diazinon 6,3 mg. Inert Excipient c.s.p. 41 gr.
Natura (Collar for Puppies)	Virbac	Tecnic Permetrina 1,1 gr. Tartrazine(colouring E-102) 4 mg. Inert Excipient csp 13,3 gr.
Preventef (collar for Cats)	Virbac	Diazinon 1,68 gr. Vitamin F 0,56 gr Inert Excipient csp 11,2 gr.
Preventic (collar for Dogs)	Virbac	Amitraz 2,52 gr. Excipient csp 28 gr.
Preventef (collar for Dogs)	Virbac	Diazinon 5,73 gr. Vitamin F 1,91 gr. Inert Excipient csp 38,2 gr.
Frontline (Spray)	Merial Lab.	Fipronil 0,25 gr. Excipient csp 100 ml.
Nuvan Top (Spray With Gas)	Novartis	Fenitrothion 0,8% Dichlorvos 0,2%
Taberdog (Spray With Gas)	Hoeschst Roussel	Tetramethrin 0,22 Piperonyl butoxide 1,10 Perfume,solvent & propellent
Diacan (Spray)	Dipaba	Permetrina 0,24 gr. Pipenilbutoxide 1,20 gr. Excipient

Parasitiven (Emulsion)	Iven Lab.	Lindano 10 gr. o-Isopronil-Fenil-N-methyl carbamate 6 gr. Flavoured Excipient & emulsifier csp 100 ml.
Expot (blisters)	Schering-Plough Animal Health	Permetrina 744 mg.
Frontline (pipettes)	Merial	Fipronil 10 gr. Butylhydroyanisol 0,02 gr. Butylhydroxytoluene 0,01 gr. Excipient csp 100 ml.
Supona (emulsion)	Esteve Vet.	Clorfenvintos
Barricade (emulsion)	Esteve Vet.	Cipemetrina
Advantage 80 (pipettes For cats)	Bayer	Imidacloprid 100 mg/ml.
Advantage 250 (pipettes For dogs)	Bayer	Imidacloprid 100 mg/ml. (250 mg of imidacloprid For each pipette)
Bolfo (pipettes)	Bayer	Fenthion 200 mg.
Bolfo (collar)	Bayer	Propoxur 9,40 gr.
Kiltix (collar)	Bayer	Propoxur 1 gr. Flumethrin 0,225 gr.
Bio Care (Spray)	Zelnova, S.A.	Permetrina 25%
Ecoinsecticida 2010 (Spray with Gas)	Dibapa	(Permetrina 10% & Bioallethrin 5%) the 2% Excipient 98%.
CatanDog's (Antiparasitic plate)	Made by Falbalamendi Distributed by Selluy G.D.	Aluminium plate treated with Scale wave fields.

PRODUCT

- **STOCKADE** (Spray with Gas). Designed for dogs and cats. Used against fleas, ticks and louses in an external way. As secondary effects It may appear in cats exposed to a high hiperesthesia dose with excitement, convulsions and collapse. If nervous symptoms appear, they must be treated with anticonvulsions. The maker also recommends using it far away from aquariums. In its manipulation, the contact with mucus and eyes has to be avoided, besides avoiding to breath aerosol. It is necessary washing with water and soap after manipulating the product, and do not also eat, drink or smoke during its manipulation. It pollutes the continental waters, It is a toxic product for fishes, birds and bees. In its packing contents a harmful and extremely inflammable label.
- **ECTRAZ** (emulsion). External antiparasitic designed for a great variety bovine mammalians, ovine, goats and pigs. It acts against the itch, ticks, louses. Its application is through spraying or bathing. It must not be subjected to stress to the animals during the following 24 hours to its application. Use protective clothes for its application (gloves, mask,...). If a contact with the skin is produced, wash with water and soap. Carry out its application in a breezy place, do not inhale, eat, drink or smoke during its application, do not store near the foods. Do not spill its content in continental waters due to It is harmful for fishes. A higher dose than the established one produces a depression of the central nervous system, so It is necessary applying a symptomatic treatment.
- **SIFROTOL** (Spray with Gas). Product designed to dogs and cats for eliminating fleas and their grubs, ticks and other domestic insects. For its application It is necessary covering fishtanks, exposed foods, dishes, utensils and kitchen equipments. Once It is applied (ventilating) for 30 minutes. Harmful product by ingestion, inhaling and contact with the skin, It irritates the eyes. Do not apply over people or animals, do not use in small places such as toilets. In case of inhalation, apply artificial respiration. It contents a toxic and inflammable product label.

- **DEFENDOG** (Spray). It offers two months protection fleas and one month against ticks. Half a liter allows treating five times a 20 Kg dog. It is exclusively for external use. It cannot be treated in any sick or convalescent animals, or less than three months old. It cannot be also applied in cats. Use gloves for product manipulation. Wash your hands after its application, avoid contact with skin, eyes and mucus, and with foods. It is toxic for fishes, crustaceans and bees. It is necessary destroying the packing in a way avoiding that continental waters were not polluted.
- **INDOREX** (Spray). Environmental insecticide for domestic use, It contents an inhibitor of growing insects. Half a liter allows treating 20 m². Do not apply the spray on animals and plants. Toxic for bees, fishes and crustaceans. Contact with skin and eyes must be avoided.
- **PREVENDER** (Antiparasitic collar for dogs). Product for big dogs with a special effectiveness on fleas. The collar active rule acts by inhibition of cholinesterase that leads to a parasite poisoning. It cannot be used in sick animals, less than 6 months old, or lactation females. Its application may produce reactions of skin hypersensitivity . It must not be managed with other inhibitors of cholinesterase and with depressive medicines of the central nervous system, fenotiaccinas kind. *Greyhound* and *Whippet* pedigrees are specially sensitive to cholinesterase inhibitors. The animal must not bite the collar and having a repeated or long contact with skin, wash your hands after manipulating the collar, keep the collar far away from the foods. Destroy the collar in a secure way for the environment. In case of accidental ingestion, signs of cholinergic poisoning are produced, being convenient managing Atropine and 2-PAM.
- **NATURA** (Collar for puppies). Antiparasitic collar against fleas and ticks. Mint smell collar. The tartrazine colouring may produce allergic reactions.
- **PREVENTEF** (Collar for cats). In case of poisoning by Diazinon (its compound), apply atropine. After putting the collar, wash your hands with water and soap.
- **PREVENTIC** (Collar for dogs). Mint smell. Do not allow the animal bites the collar, wash your hands with water and soap once It is put, keep far away from children and foods. In case of collar ingestion sign of adrenergic kind will appear: mouth dryness, mydriasis, bradycardia, bradypnoea, hypothermia, intestinal movement paralysis, prostration more or less bind to a depression of the central nervous system. In these

cases is good provoking vomit, administrate a soft laxative and set up a symptomatic treatment. As specific treatment it will be managed yohimbina or antipamezol that act as amitraz antidote.

- **PREVENTEF** (Collar for big dogs) in its composition is included Vitamin F designed for keeping the balance in the skin. Wash your hands with water and soap after putting the collar, keep far away from children, destroy the collar in a secure way for environment. As antidote face to diazinon (its component), apply atropine.
- **FRONTLINE** (Spray). Antiparasitic solution for external use in dogs and cats. It attacks fleas and ticks. As secondary effects It may appear ocular irritation and dandruff. Veterinary use product, its dispensation is with veterinary prescription. Avoid the animal licks itself after its application. For it, use gloves, pulverize in breezy rooms, wash your hands after use. Do not smoke, drink or eat during the product application. Keep the treated animal far away from children until It is completely dry. Do not pollute continental waters.
- **NUVAN TOP** (Spray with Gas). For veterinary use, designed to attack louses, dogs and cats itch, fleas, ticks and their grubs. It protects more than 2 weeks. Avoid contact with eyes and skin. In case of poisoning, call to Toxicological Information Service. It is extremely inflammable.
- **TABERDOG** (Spray). Designed for treatment and infestation by external parasites in dogs. In case of accidental ingestion, do not induce to vomit, call a Doctor. In case of contact with the eyes wash them with plenty water. Wash your hands after its application. Destroy the packings in a secure way, fishes are sensitive to piretrines. During the using period, avoid administrating esterasas and oxidasas inhibitors, such as organphosphorus insecticides. It is extremely inflammable.
- **DIACAN** (Spray). Antiparasitic liquid for fleas and ticks infestations control. Wash your face and hands when manipulation is finished.
- **PARASITIVEN** (Emulsion). Powerful destructive of itch mites and other parasites. The application is in dogs. It is mixed with bathings, 10 parts of water and 1 of the product. Toxic product by inhalation or absorption through skin and mucus. Staff have to use appropriate clothes, protect their hands with elastic gloves and wash them after using. Toxic product for fishes, birds and other wild animals. It pollutes the waters. In case of inhalation, do artificial respiration to the victim. Do not induce to vomit if the victim is unconscious. If is conscious induce to vomit until is clean. Inflammable product.

- **EXPOT** (Blisters). Exclusive use in dogs. Permethrin is a nervous poison which produces excitement, convulsion, paralysis and insect death. It is active against fleas, ticks and lice. Dogs may show lethargy, itch, erythema, exanthema and hair-loss in the point of its application. In case of massive ingestion, It appears excitement and convulsions which lead to a paralysis and muscular fibrillation and may produce death by insufficiency respiratory. It may be administered salty cathartic or an activated coal suspension. In case of nervous symptoms appearance, treat with anticonvulsions. Dangerous product for fishes and crustaceans. Aquariums, fish tanks, etc must not be polluted.
- **FRONTLINE** (Pipettes). Product designed to attack fleas and ticks in dogs between 10 and 20 Kg. It has 2 months protection against fleas and 1 month against ticks. Do not use in breast-feeding females. Prevent contact with the hands or any other part of the human body. Wash your hands with water and soap after application, do not smoke, eat or drink during its use.
- **SUPONA** (Emulsion). Parasites control in pets animals. Mix the content with 10 or 15 liters of water. Applying every 3 weeks. Provoke vomit in case of ingestion and call the Doctor. Wash your hands after treatment.
- **BARRICADE** (Emulsion). Parasites control in pets. Mix the content with 10 or 15 liters of water. Apply every 3 weeks. Provoke vomit in case of ingestion and call the Doctor. Wash your hands after treatment.
- **ADVANTAGE 80** (Pipettes). Fleas treatment in cats. A treatment prevents a following infestation during 3 or 4 weeks. Do not eat, drink or smoke during its application, wash your hands after the use. In case of contact with the skin, wash with plenty of water and soap.
- **ADVANTAGE 250** (Pipettes). Fleas treatment in dogs. A treatment prevents a following infestation during 3 or 4 weeks. Do not eat, drink or smoke during its application, wash your hands after use. In case of contact with the skin, wash with plenty of water and soap.
- **BOLFO** (Pipettes). Product for dogs and cats. It is externally applied and distributed through blood to the corporal tissues. It cannot be applied in under 10 kg and less than 1 year dogs. Do not use in sick animals, weaken, under stress or post-operative period. Accidentally it may produce uneasiness, vomit, diarrhoea, anorexia or intermittent coughing. Do not use together with antiparasitic collars. Overdosing produces hypersalivation, vomits, diarrhoea, miosis and tear-producing,

shakings and muscular contractions. The product must be applied in well breezy places, rather on open air, there must not be contact with the skin, mucus, eyes. If there is overflow, wash thoroughly with water, do not inhale vapours.

- **BOLFO** (Antiparasitic collar). Antiparasitic collar for dogs. Do not use in animals with case-history to anticholinesterase hypersensitivity, sick or convalescent animals. Do not also use in animals subjected to an external therapy with corticosteroids. At times It may produce reactions of skin hypersensitivity around the neck. On surface where the collar is put, a powder is formed, toxic by ingestion. If this happens cholinergic poisoning symptoms are produced (hypersalivation, vomits, diarrhoea, shakings and muscular contractions). Atropine and 2-PAM must be administered plus destroying the remains in a secure way. Do not use together with anticholinesterase inhibitors agents, depressive medicaments of the central nervous system, or muscular laxatives. Do not also use, together, with soap or pH alkaline.
- **KILTRIX** (Antiparasitic collar). Collar for medium size dogs. It attacks fleas and ticks. After putting, wash your hands, do not allow the children playing with the collar. The collar is toxic for bees and fishes.
- **BIO CARE** (Spray). Designed for dogs and cats, It attacks crawling and flying insects in all their ways (egg, grub, chrysalis, caterpillar or insect). Its effects state to last 4 weeks. It is stated not to be poisonous and for its application are not required special measures of ocular or breathing protection.
- **ECOINSECTICIDA 2010** (Spray). Insecticide which acts by ingestion or contact both in flying and crawling insects. Its use is through spraying. It may be applied on the animal skin. Keep far away from children, foods, fodders and drinks.
- **CATANDOG'S** (Antiparasitic plate). Plate treated with scale wave fields which function consists in repulsing the external parasites that attack dogs and cats. For its parasitic function realization, It does not content any chemical in its composition, It does not smell or presents secondary effects harmful for animals or human beings who live near it, water resistant and lasts 2 years. In order to make secure its effectiveness, It must be kept permanently in the animal collar.

**CENTROS TECNOLÓGICOS
DE NAVARRA S.A.**

30th July 1998

REPORT

The present report, asked for CETENSA by D. José Luis Arranz Gil from FALBALAMENDI Company, describes the reading tests carried out and the obtained results about an identification of animals chip in the presence of Catandog's antiparasitic plate.

For the tests achievement a POCKET-READER EX reader has been used with a standard model number 026439 and two chips. These equipments have been transferred by Public Health Veterinary surgeon BEATRIZ ANDERIZ MORLANES from FOOD HEALTH DEPARTMENT of PUBLIC HEALTH INSTITUTE of NAVARRA GOVERNMENT.

The reader using has been carried out with the specifications joined on the handbook.

DESCRIPTION OF THE REALIZED TESTS

The reading tests have been carried out in different conditions, realizing each of them ten times.

REALIZED TESTS:

- 1. Direct reading over chip for verifying the right reader working.**
- 2. Chip reading placing the plate in front of this one.**
- 3. Chip reading placing the plate behind this one.**
- 4. Chip reading placing the plate laterally over this one.**
- 5. Chip reading placing the plate in front of this one and inserting a piece of leather between the plate and the chip.**
- 6. Chip reading inserted on a dog placing the plate in front of this one.**

OBTAINED RESULTS:

	Nº Readings	Correct	Incorrect
Test nº1	10	10	0
Test nº2	10	10	0
Test nº3	10	10	0
Test nº4	10	10	0
Test nº5	10	10	0
Test nº6	10	10	0

After the tests realization It is watched that no mistake has taken place in any of the carried out tests.

Project Responsible

Santiago Gallo

SERVICIO NAVARRO DE SALUD

PUBLIC HEALTH INSTITUTE

Attended to the presented apply by D. José Luis Arranz Gil, from FALBALAMENDI S.L., located in Baracaldo(Vizcaya) in order to realize the verification about the interference of the entitled "Catandog´s Plate" in Reading of identification microchips used in domestic animals, I inform you the following:

The proof was carried out with FECAVA transponder, Full Duplex A system (FDXA) and with ISO transponder, Full Duplex B system (FDXB), effecting the reading of them with a polyvalent ISO reader, pocket-reader EX model, officially approved rule ISO 11.785(reading FDXB + HDX + FECAVA), in temperature and humidity environmental conditions, placing between the transponder and the reader firstly, one of the mentioned plates, then two and so on operating with twenty plates at the same time, proving that in any of these cases neither interfere nor avoid the right reading of identification transponders(microchips) of domestic animals.

**Pamplona, 10th August 1998.
FOOD HEALTH SECTION MANAGER
Julio Fernández de Manzano**

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