

EFFICACY REVIEW

DATE: IN 3-11-93 OUT 11- 9-93

FILE OR REG. NO. 2382-104

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED January 29, 1993

DATE OF SUBMISSION December 23, 1992

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): (I,)D, H, F, N, R, S _____

DATA ACCESSION NO(S). 426773-01;D189078;S436574;Case#047813;AC:305

PRODUCT MGR. NO. 19-Edwards/Johnson

PRODUCT NAME(S) Preventic Tick Collar for Dogs

COMPANY NAME VIRBAC, Incorporated

SUBMISSION PURPOSE Provide performance data demonstrating need for
reducing 4-month effectiveness claim to 3 months
based on release rate data for new plasticizer.

CHEMICAL & FORMULATION Amitraz: N'-(2,4-dimethylphenyl)-N-[[2,4-
dimethylphenyl)imino]methyl]-N-methylmethanimidamide 9.0%
(0.97 oz. net weight, impregnated material)

CONCLUSIONS & RECOMMENDATIONS The data presented in EPA Accession
(MRID) Number 426773-01, having been taken from a standard field
test simulating actual use and meeting the requirements of § 95-30
subpart (b)(11)1.-10. on pp. 280-84 and the standard of § 95-9(b)
subpart (2)(i) on p. 264 of the Product Performance Guidelines, are
adequate to support a claim for killing brown dog tick, Rhipiceph-
alus sanguineus, and American dog tick, Dermacentor variabilis, for
up to 3 months rather than the present label claim of 4 months when
the subject collar is worn continuously by dogs up to 25 inches in
neck size. This reduced claim was necessitated by the release rate
characteristics of the plasticizer which was substituted for the
former plasticizer which was on List A of Inert Ingredients of Con-
cern previously issued by the Agency. It has been determined that
the new plasticizer system releases amitraz at a rate about 25%
faster than the former plasticizer, resulting in earlier depletion
of the active ingredient level required for satisfactory tick kill.

RL Vern L. McFarland, IRB