

Supplementary Table S1. Individual results of the efficacy of sarolaner, administered orally, against the mite *Otodectes cynotis* in naturally infested cats.

Group	Animal	Experimental Day										
		D-5	D-2	D0 +2h	D0+4h	D0+12h	D+1	D+2	D+7	D+14	D+21	D+28
Control	1	3	3	3	3	3	3	3	3	3	3	3
	2	2	2	2	2	2	2	2	2	2	2	2
	3	3	3	3	3	2	3	3	3	3	3	3
	4	2	2	2	2	2	2	2	3	3	3	3
	5	3	3	3	3	3	3	3	3	2	2	3
	6	3	3	3	3	3	3	3	3	3	3	3
	7	2	2	2	2	2	2	2	2	3	3	3
	8	3	3	3	3	3	3	3	3	3	3	3
	9	2	2	3	3	3	2	2	2	2	2	2
	10	3	3	3	3	3	3	3	2	3	3	3
Mean		2.6	2.6	2.7	2.7	2.6	2.6	2.6	2.6	2.7	2.7	2.8
Standard Deviation		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Treated	11	3	3	3	3	3	1	0	0	0	0	0
	12	2	2	2	2	1	1	0	0	0	0	0
	13	3	3	3	3	3	1	0	0	0	0	0
	14	3	3	3	2	2	2	0	0	0	0	0
	15	2	2	2	2	2	2	0	0	0	0	0
	16	3	3	3	3	3	2	0	0	0	0	0
	17	3	3	2	2	1	0	0	0	0	0	0
	18	3	3	3	3	2	1	0	0	0	0	0
	19	3	3	3	3	3	2	0	0	0	0	0
	20	2	2	2	2	2	0	0	0	0	0	0
Mean		2.7	2.7	2.6	2.5	2.2	1.2	0	0	0	0	0
Standard Deviation		0.5	0.5	0.5	0.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0
Efficacy		---	---	3.7	7.4	15.4	53.8	100.0	100.0	100.0	100.0	100.0
P- value		0.6477	0.6477	0.6477	0.3736	0.2402	0.0015	0.0002	0.0002	0.0002	0.0002	0.0002

Supplementary Table S2: Number of live mites (*Otodectes cynotis*) recovered after each cat's ear flush in the study and the acaricidal efficacy of orally administered sarolaner in the treated group.

Group	Animal	Right ear	Left ear	Total
Control	1	16	13	29
	2	4	3	7
	3	12	11	23
	4	7	2	9
	5	23	11	34
	6	18	12	30
	7	4	5	9
	8	12	13	25
	9	2	7	9
	10	14	15	29
Mean		11,2	9,2	20,4
Standard Deviation		6.9	4.6	10.7
Treated	11	0	0	0
	12	0	0	0
	13	0	0	0
	14	0	0	0
	15	0	0	0
	16	0	0	0
	17	0	0	0
	18	0	0	0
	19	0	0	0
	20	0	0	0
Mean		0	0	0
Standard Deviation		0,0	0,0	0,0
Efficacy		---	---	100
<i>p- value</i>		---	---	<0.0001