COMPARATIVE EVALUATION OF PALATABILITY ENHANCERS

1. Feeding methods and requirements

Experiment Period	Feeding Duration/meal	Feeding Quantity/meal
4 days	24 hours	50 grams

(1) Weigh and record the amount of cat food remaining at the end of each feeding.
(2) Clean cat food bowls before each feeding.
(3) Provide adequate water for the cats.
(4) Secure cat food bowls to prevent upset.
(5) Switch positions of the bowls with different cat food at the next feeding.
(6) The cats must be in good health and have no symptoms such as cold or diarrhea.

2. The subjects and date of the experiment

Subjects: 14 adult cats of random gender and different breeds
Date: Dec. 9 - Dec. 13, 2022
Place: A pet store

3. Experimental methods

The experiment is carried out by the "two-basin method", an international method for palatability comparison. According to the experimental principle of the method, the cats will be respectively given control and experimental products. T1 (control subject) and T2 (experimental subject) involved in the experiment are recorded as an experimental group.

4. Treatment details

Treatment	Diet	Remarks
1	Cat food with seasoning cream (Item no.927)	Other sample
2	Cat food with seasoning cream (Item no. 915)	Profypet

5. Results

Table 1. First choice

	Day 1		Day 2		Day 3		Day 4	
	T1	T2	T1	T2	T1	T2	T1	T2
Cat 1		√		√		√		√
Cat 2	√			√	√		√	
Cat 3	√		√			√		√
Cat 4		√		√		√		√
Cat 5		√		√	√		√	
Cat 6		√		√		√		√
Cat 7		√	√		√			√
Cat 8		√		√		√	√	
Cat 9		√		√		√		√
Cat 10	√		√			√		√
Cat 11		√		√		√	√	
Cat 12		√	√		√		√	
Cat 13	√		√		√		√	
Cat 14		√		√		√		√
Frequency:	4	**10**	5	**9**	5	**9**	6	**8**
Ratio:	28.57%	**71.43%**	35.71%	**64.29%**	35.71%	**64.29%**	42.86%	**57.14%**

       In a sample size of 14 adult cats of different breeds, more than half of them picked the cat food with the *Profypet* palatant as their first choice respectively with 71.43%, 64.29%, 64.29% and 57.14% while the rest chose T1, the cat food with the *other sample* palatant.

Table 2. Average daily cat food consumption

	Day 1		Day 2		Day 3		Day 4	
	T1	T2	T1	T2	T1	T2	T1	T2
Cat 1	13.5	9.1	11.7	8.7	10.6	7.4	11.9	6.6
Cat 2	12.6	6.6	12.8	9.6	11.6	8.7	11.6	9.4
Cat 3	11.8	8.1	10.7	9.7	7.4	11.2	9.3	12.7
Cat 4	8.4	14.7	9.3	13.3	9.6	12.8	8.7	12.6
Cat 5	6.6	13.6	7.4	11.8	8.1	10.4	9.5	11.7
Cat 6	9.6	17.7	7.4	11.6	8.3	12.3	7.4	10.7
Cat 7	8.5	16.3	9.3	15.5	10	13.6	8.3	12.9
Cat 8	7.7	8.5	9.1	9.1	9.6	8.2	9.6	9.6
Cat 9	9.4	13.6	8.6	12.2	6.6	10.8	7.7	11.4
Cat 10	11.4	2.8	12.7	7.7	12.8	9.3	11.4	6.5
Cat 11	6.6	11.9	8.7	12.4	7.9	11.4	8.6	12.5
Cat 12	9.4	12.7	9.6	13	8.3	12.7	9.4	11.5
Cat 13	12.7	7.4	11.7	5.7	10.8	7.3	12.8	9.4
Cat 14	7.5	11.1	10.1	9.4	9.1	11.6	8.5	12.5

Average daily cat Food Consumption:	T1	135.02	T2	150.375

Based on the average daily cat food consumption, T2 or the cat food with *Profypet* palatant is 11.37% preferred more than T1 or the cat food with *other sample* palatant.

Table 3. Consumption Ratio

	T1	T2
Cat 1	60	40
Cat 2	58.62	41.38
Cat 3	48.45	51.55
Cat 4	40.27	59.73
Cat 5	39.95	60.05
Cat 6	38.47	61.53
Cat 7	38.24	61.76
Cat 8	50.42	49.58
Cat 9	40.22	59.78
Cat 10	64.75	35.25
Cat 11	39.75	60.25
Cat 12	42.38	57.62
Cat 13	61.70	38.30
Cat 14	44.11	55.89

Percent of preference is computed through the computed consumption ratio and the results show that about 71.43% of the cats preferred the cat food with *Profypet* palatant and 28.57% preferred the cat food with *other sample* palatant.