

Shelf Life

Effect of Storage Time and Temperature on the Vitamin Levels of Tablets

TestDiet™ Monkey MV 5073 was stored at 72° F (22° C), then one lot was stored for an additional fifty-three weeks at 72° F and another lot was stored for an additional fifty-three weeks at 90° F. Vitamin assays were performed at 7, 34, and 60 weeks of storage.

As the data indicates, TestDiet™ Monkey MV 5073 has a shelf life of up to one year if stored at room temperature (72° F or 22° C). The levels of vitamin C, riboflavin, and niacin remain relatively consistent throughout the storage period. While it may appear that the levels increase over a period, this result is due to analytical variability.

The level of vitamin A decreased as storage time increased, and decreased below specifications if the tablet were stored at 90° F.

These results are typical of what may be expected with all of the TestDiet™ tablets. Storage of any TestDiet™ product at 90° F is **never** recommended and data on storage at that temperature is included to demonstrate that the stability of tablets, and in particular vitamin A, decreases as storage temperature increases.

	Vitamin A* IU/tablet	Vitamin C mg/tablet	Riboflavin mg/tablet	Niacin mg/tablet
Specifications	2000	60	1.70	20.0
7 Weeks at 72° F (22° C)	2510	67	1.62	18.1
34 weeks at 72° F (22° C)	2260	68	1.74	21.2
60 weeks at 72° F (22° C)	2130	64	1.74	19.1
7 weeks at 72° F followed by 27 weeks at 90° F (32° C)	1680	65	1.68	18.7
7 weeks at 72° F followed by 53 weeks at 90° F (32° C)	1380	62	1.74	19.9