

Stability Data Sheet

This test is referred to the "Feed Additive Stability Test Guide" and China Pharmacopeia.

Products: Vitamin D₃ 500 Feed Grade

Active Ingredient: Vitamin D₃

1. Long term stability test

1.1 Samples

Sample name: Vitamin D₃ 500 Feed Grade

Batch no: 131-1201005F, 131-1202002F, 131-1208006F

1.2 Test methods: HPLC

1.3 Test items

Appearance: Assay

1.4 Test condition

Temperature: 25±2°C;

Humidity: 60%±5% RH;

Imitate the standard KINGDOMWAY Packing

Test time-points: 0th, 3rd, 6th, 9th, 12th, 18th, 24thmonth

1.5 Test result

Imitate the standard KINGDOMWAY packages and stored for 24 months. The result shows that the products: Vitamin D₃ 500 Feed Grade conforms to the corresponding specification. No significant change occurs at such condition.

1.5.1 Long-term Stability Test Report

Sample name: Vitamin D₃ 500 Feed Grade

Batch No: 131-1201005F

Sampling Time	Appearance (Off-white to brownish-yellow fine particles)	Content(IU/g)
Initial	Complies	509,000
3 months	Complies	507,500
6 months	Complies	508,400
9 months	Complies	508,000

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12 months	Complies	507,000
18 months	Complies	504,200
24 months	Complies	501,700

1.5.2 Long-term Stability Test Report**Sample name:** Vitamin D₃ 500 Feed Grade**Batch No:** 131-1202002F

Sampling Time	Appearance (Off-white to brownish-yellow fine particles)	Content(IU/g)
Initial	Complies	514,800
3 months	Complies	514,700
6 months	Complies	516,000
9 months	Complies	513,000
12 months	Complies	514,000
18 months	Complies	511,400
24 months	Complies	509,400

1.5.3 Long-term Stability Test Report**Sample name:** Vitamin D₃ 500 Feed Grade**Batch No:** 131-1208008F

Sampling Time	Appearance (Off-white to brownish-yellow fine particles)	Content(IU/g)
Initial	Complies	513,800
3 months	Complies	513,800
6 months	Complies	513,200
9 months	Complies	513,000
12 months	Complies	512,500
18 months	Complies	510,400
24 months	Complies	507,000

2 Accelerated Stability Test



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2.1 Samples

Sample name: Vitamin D₃ 500 Feed Grade

Batch No: 131-1209009F, 131-1209010F, 131-1209011F

2.2 Testing Methods: HPLC

2.3 Testing Items

Appearance, assay

2.4 Test Condition

Temperature: 40±2°C;

Humidity: 75%±5% RH;

Imitate the standard KINGDOMWAY Packing

Test time-points: 0th, 1st, 2nd, 2nd, 6th months

2.5 Test Result

Imitate the standard KINGDOMWAY packages and stored for 6 months. No significant change occurs at such condition as temperature 40±2°C, Humidity: 75%±5% RH. The quality of Vitamin D₃ 500 Feed Grade is stable enough to be affected.

2.5.1 Accelerated Stability Test Report

Sample name: Vitamin D₃ 500 Feed Grade

Batch No: 131-1209009F

Sampling Time	Appearance (Off-white to brownish-yellow fine particles)	Content(IU/g)
Initial	Complies	511,600
1 month	Complies	509,800
2 months	Complies	508,600
3 months	Complies	505,900
6 months	Complies	492,200

2.5.2 Accelerated Stability Test Report

Sample name: Vitamin D₃ 500 Feed Grade

Batch No: 131-1209010F

Sampling Time	Appearance (Off-white to brownish-yellow fine particles)	Content(IU/g)
Initial	Complies	514,000

1 month	Complies	512,100
2 months	Complies	510,800
3 months	Complies	507,800
6 months	Complies	494,400

2.5.3 Accelerated Stability Test Report

Sample name: Vitamin D₃ 500 Feed Grade

Batch No: 131-1209011F

Sampling Time	Appearance (Off-white to brownish-yellow fine particles)	Content(IU/g)
Initial	Complies	506,000
1 month	Complies	505,400
2 months	Complies	504,200
3 months	Complies	503,000
6 months	Complies	487,700

3 General conclusion

During the test time, the quality of Vitamin D₃ 500 Feed Grade is stable and complies with the quality standards.