

```

GLM  抑菌率重复1  抑菌率重复2  抑菌率重复3  抑菌率重复4  抑菌率重复5  抑菌率重复6  抑菌率重复
7  抑菌率重复8  抑菌率重复9 BY  处理  地区
  /W SFACTOR= 抑菌率 9 Polynomial
  /METHOD=SSTYPE(3)
  /CRITERIA=ALPHA(.05)
  /WSDSIGN=抑菌率
  /DESIGN= 处理 地区 处理*地区.

```

## General Linear Model

[DataSet1] C:\Users\hc\Desktop\甲霜灵9次重复.sav

### Within-Subjects Factors

Measure: MEASURE\_1

抑菌率	Dependent Variable
1	抑菌率重复1
2	抑菌率重复2
3	抑菌率重复3
4	抑菌率重复4
5	抑菌率重复5
6	抑菌率重复6
7	抑菌率重复7
8	抑菌率重复8
9	抑菌率重复9

### Between-Subjects Factors

		Value Label	N
处理	1	6ug/ml	185
	2	12ug/ml	185
地区	1	福建	186
	2	云南	184

**Multivariate Tests<sup>b</sup>**

Effect		Value	F	Hypothesis df
抑菌率	Pillai's Trace	.041	1.899 <sup>a</sup>	8.000
	Wilks' Lambda	.959	1.899 <sup>a</sup>	8.000
	Hotelling's Trace	.042	1.899 <sup>a</sup>	8.000
	Roy's Largest Root	.042	1.899 <sup>a</sup>	8.000
抑菌率 * 处理	Pillai's Trace	.012	.551 <sup>a</sup>	8.000
	Wilks' Lambda	.988	.551 <sup>a</sup>	8.000
	Hotelling's Trace	.012	.551 <sup>a</sup>	8.000
	Roy's Largest Root	.012	.551 <sup>a</sup>	8.000
抑菌率 * 地区	Pillai's Trace	.062	2.965 <sup>a</sup>	8.000
	Wilks' Lambda	.938	2.965 <sup>a</sup>	8.000
	Hotelling's Trace	.066	2.965 <sup>a</sup>	8.000
	Roy's Largest Root	.066	2.965 <sup>a</sup>	8.000
抑菌率 * 处理 * 地区	Pillai's Trace	.007	.318 <sup>a</sup>	8.000
	Wilks' Lambda	.993	.318 <sup>a</sup>	8.000
	Hotelling's Trace	.007	.318 <sup>a</sup>	8.000
	Roy's Largest Root	.007	.318 <sup>a</sup>	8.000

**Multivariate Tests<sup>b</sup>**

Effect		Error df	Sig.
抑菌率	Pillai's Trace	359.000	.059
	Wilks' Lambda	359.000	.059
	Hotelling's Trace	359.000	.059
	Roy's Largest Root	359.000	.059
抑菌率 * 处理	Pillai's Trace	359.000	.817
	Wilks' Lambda	359.000	.817
	Hotelling's Trace	359.000	.817
	Roy's Largest Root	359.000	.817
抑菌率 * 地区	Pillai's Trace	359.000	.003
	Wilks' Lambda	359.000	.003
	Hotelling's Trace	359.000	.003
	Roy's Largest Root	359.000	.003
抑菌率 * 处理 * 地区	Pillai's Trace	359.000	.959
	Wilks' Lambda	359.000	.959
	Hotelling's Trace	359.000	.959
	Roy's Largest Root	359.000	.959

a. Exact statistic

b. Design: Intercept + 处理 + 地区 + 处理 \* 地区  
Within Subjects Design: 抑菌率

### Mauchly's Test of Sphericity<sup>b</sup>

Measure: MEASURE\_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.
抑菌率	.000	5526.979	35	.000

### Mauchly's Test of Sphericity<sup>b</sup>

Measure: MEASURE\_1

Within Subjects Effect	Epsilon <sup>a</sup>		
	Greenhouse-Geisser	Huynh-Feldt	Lower-bound
抑菌率	.470	.479	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

b. Design: Intercept + 处理 + 地区 + 处理 \* 地区  
Within Subjects Design: 抑菌率

### Tests of Within-Subjects Effects

Measure: MEASURE\_1

Source		Type III Sum of Squares	df	Mean Square
抑菌率	Sphericity Assumed	.213	8	.027
	Greenhouse-Geisser	.213	3.756	.057
	Huynh-Feldt	.213	3.831	.056
	Lower-bound	.213	1.000	.213
抑菌率 * 处理	Sphericity Assumed	.016	8	.002
	Greenhouse-Geisser	.016	3.756	.004
	Huynh-Feldt	.016	3.831	.004
	Lower-bound	.016	1.000	.016
抑菌率 * 地区	Sphericity Assumed	.495	8	.062
	Greenhouse-Geisser	.495	3.756	.132
	Huynh-Feldt	.495	3.831	.129
	Lower-bound	.495	1.000	.495
抑菌率 * 处理 * 地区	Sphericity Assumed	.024	8	.003
	Greenhouse-Geisser	.024	3.756	.006
	Huynh-Feldt	.024	3.831	.006
	Lower-bound	.024	1.000	.024
Error(抑菌率)	Sphericity Assumed	42.804	2928	.015
	Greenhouse-Geisser	42.804	1374.740	.031
	Huynh-Feldt	42.804	1402.154	.031
	Lower-bound	42.804	366.000	.117

### Tests of Within-Subjects Effects

Measure: MEASURE\_1

Source		F	Sig.
抑菌率	Sphericity Assumed	1.821	.069
	Greenhouse-Geisser	1.821	.127
	Huynh-Feldt	1.821	.125
	Lower-bound	1.821	.178
抑菌率 * 处理	Sphericity Assumed	.139	.997
	Greenhouse-Geisser	.139	.962
	Huynh-Feldt	.139	.964
	Lower-bound	.139	.709
抑菌率 * 地区	Sphericity Assumed	4.228	.000
	Greenhouse-Geisser	4.228	.003
	Huynh-Feldt	4.228	.002
	Lower-bound	4.228	.040
抑菌率 * 处理 * 地区	Sphericity Assumed	.201	.991
	Greenhouse-Geisser	.201	.929
	Huynh-Feldt	.201	.932
	Lower-bound	.201	.654

### Tests of Within-Subjects Contrasts

Measure: MEASURE\_1

Source	抑菌率	Type III Sum of Squares	df	Mean Square	F	Sig.
抑菌率	Linear	.007	1	.007	.189	.664
	Quadratic	.001	1	.001	.103	.748
	Cubic	.048	1	.048	7.686	.006
	Order 4	.012	1	.012	1.069	.302
	Order 5	.018	1	.018	5.316	.022
	Order 6	.009	1	.009	.385	.536
	Order 7	.107	1	.107	6.653	.010
	Order 8	.010	1	.010	2.020	.156
抑菌率 * 处理	Linear	.000	1	.000	.004	.947
	Quadratic	.003	1	.003	.228	.633
	Cubic	.002	1	.002	.401	.527
	Order 4	.001	1	.001	.109	.741
	Order 5	.003	1	.003	.806	.370
	Order 6	.001	1	.001	.030	.864
	Order 7	.006	1	.006	.392	.531
	Order 8	4.329E-9	1	4.329E-9	.000	.999
抑菌率 * 地区	Linear	.009	1	.009	.242	.623
	Quadratic	.005	1	.005	.404	.525
	Cubic	.097	1	.097	15.664	.000
	Order 4	.005	1	.005	.443	.506
	Order 5	.047	1	.047	14.057	.000
	Order 6	.059	1	.059	2.473	.117
	Order 7	.271	1	.271	16.802	.000
	Order 8	.001	1	.001	.290	.591
抑菌率 * 处理 * 地区	Linear	.007	1	.007	.180	.672
	Quadratic	.000	1	.000	.010	.920
	Cubic	.003	1	.003	.469	.494
	Order 4	.001	1	.001	.049	.825
	Order 5	.001	1	.001	.318	.573
	Order 6	4.808E-8	1	4.808E-8	.000	.999
	Order 7	.011	1	.011	.711	.400
	Order 8	.000	1	.000	.073	.788

### Tests of Within-Subjects Contrasts

Measure: MEASURE\_1

Source	抑菌率	Type III Sum of Squares	df	Mean Square
Error(抑菌率)	Linear	14.390	366	.039
	Quadratic	4.268	366	.012
	Cubic	2.270	366	.006
	Order 4	4.279	366	.012
	Order 5	1.217	366	.003
	Order 6	8.663	366	.024
	Order 7	5.910	366	.016
	Order 8	1.808	366	.005

### Tests of Between-Subjects Effects

Measure: MEASURE\_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	2584.588	1	2584.588	9835.895	.000
处理	2.573	1	2.573	9.790	.002
地区	.046	1	.046	.174	.677
处理 * 地区	.008	1	.008	.030	.863
Error	96.174	366	.263		