

# Field Test Report on Max Special Fulvic95

## 95% Fulvic Acid Powder

### Product character:

Brown powder water soluble pH=6-8

### Main ingredient:

Fulvic acid : 95%,

### Efficacy:

Improve crop's quality enhance resistance of crops induce plants to enhance resistance to disease meliorate soil increase yield for 15 to 30%.

The greatest advantage of this kind of fertilizer is its good water-solubility, and application to spray and irrigation. Because it is powder form, transportation is very convenient. But the protection against moisture should be noted.

Test bases are set up in Shaanxi Agricultural Organic Fertilizer Research Center. And field test is proceeded according to the standard stated in *Technical Rules of Field Test On Fertilizer Effect* (NY/T497-2002).

In this test, Fulvic acid Powder shows a distinct advantage in increasing yield


### 1. Effect on cabbage in early spring.

To test with 3 treatments: A. Fulvic acid Powder B. Common contrast C. Water contrast

To dilute it with water for 1500-2000 times and spray once in seedling stage, fruit swelling stage and heading stage of the cabbage. The balling is sturdy. The average weight per plant is 3.57KG, and the largest plant weighs 4.75KG. The output per hectare is 142,800 KG (40,000 plants per hectare, with the row spacing of 50CM × 50CM ). The yield increased by 18.6% than that of water contrast area (see form 1).

Fulvic acid Powder's Effect on Cabbage

Form 1

Treatment	Weight Per Plant	Yield of Test Area	Computative of per ha	Comparing to C+	Note
	(KG/Plant)	(KG/30 m <sup>2</sup> )	(KG)	%	
A. Fulvic acid Powder	3.57	428.4	142,800	18.6	
B. Common	3.27	392.4	130,800.-	8.6	
C. Water	3.01	361.2	120,400.-	-----	


## 2. Effect on cucumber

To test with 3 treatments: A. Fulvic acid Powder B. Common contrast C. Water contrast

To apply in the seedling stage, flowering stage and early fruiting stage with dilution with water for 2000 times. To apply every 7-10 days. Benefit bud differentiation. The leaves and cucumbers are in deep green, and taste is fresh and sweet. The yield increased by 19.2% than that of the contrast area (see form 2).

### Fulvic Acid Powder's Effect on Cucumber


Form 2

Treatment	Yield of Test Area (KG/40 m <sup>2</sup> )	Computative of per ha  (KG)	Comparing to C+  %	Note
				
A. Fulvic acid t Powder	410	102,500.-	19.2	
B. Common	373	93,250.-	8.4	
C. Water	344	86,000.-	-----	

## 3. Effect on Vegetable Marrow (see form 3)

### Fulvic acid Powder's Effect on Vegetable Marrow


Form: 3

Treatment	Yield of Test Area (KG/30  m <sup>2</sup> )	Computative of per ha  (KG)	Increasing rate comparing to  C-water %	Note
				
A. Fulvic acid Powder	186	62,000.-	20.0	
B. Common	165	55,000.-	6.45	
C. Water	155	51,667.-	-----	

#### 4. Effect on tomato (large tomato) (see form 4)

##### Fulvic Acid Powder's Effect on Tomato

Form: 4

Treatment 	Yield of Test Area (KG/40 m <sup>2</sup> )		Computative of per ha (KG)	Increasing rate comparing to C-water %	Note
A. Fulvic acid Powder	52		13,000.-	15.6	
B. Common	49		12,250.-	8.9	
C. Water	45		11,250.-	-----	


#### 5. Celery

The test is in the sunlight greenhouse.

To test with 3 treatments: A. Fulvic acid Powder B. Common contrast C. Water contrast Repeat 3 times. To spray with dilution with water for 1500-2000 times, 1-1.5kg/ha. To spray 4 times (from the seedling stage on April 24<sup>th</sup> until 7days before harvest), and apply every 10-15 days.

The yield of fertilized area increases by 13.1% than that of water contrast area, and 7.0% than that of common contrast area (see form 5). Tested by LSR, the differences between Fulvic acid Powder water contrast area is prominent.

##### Form 5 Fulvic Acid Powder's Effect on Celery

Treatment 	Yield of Test Area (KG/20 m <sup>2</sup> )			Total	Average (KG/20 m <sup>2</sup> )	Computative of per ha (KG)	Comparison %	
	I	II	III				Comparing to B	Comparing to C
A	145	137	133	415	138	69000	7.0	13.1
B	135	123	128	386	129	64500		5.7
C	122	117	127	366	122	61000	5.4	


#### 6. Ball cabbage

This test is proceeded in the ball cabbage field.

To test with 3 treatments: A. Fulvic acid Powder B. Common contrast C. Water contrast Repeat 3 times. To spray with dilution with water for 1500-2000 times, 1-1.5 kg/ha. To spray 3 times (in the seedling stage, early heading stage and middle and late stages), and apply every 10-15 days.

The yield of fertilized area increases by 14.88% than that of water contrast area, and 7.34% than that of common contrast area (see form 6). Tested by LSR, the differences between Fulvic acid Powder area and water contrast area is prominent.

Form 6 Effect of Fulvic Acid Powder on Yield of Ball Cabbage

Treatment 	Yield of Test Area (KG/40 m <sup>2</sup> )			Total	Average (KG/40 m <sup>2</sup> )	Computative of per ha (KG)	Comparison %	
	I	II	III				Comparing to B	Comparing to C
A	280	276	277	833	278	69500	7.34	14.88
B	263	255	259	777	259	64750		7.02
C	243	245	239	727	242	60500	6.56	


### 7. Tomato

This test is proceeded in the sunlight greenhouse of the garden.

To test with 3 treatments: A. Fulvic acid Powder B. Common contrast C. Water contrast Repeat 3 times. To spray with dilution with water for 1500-2000 times, 1-1.5 kg/ha. To spray started from the seedling stage (22/1), and then in the flowering stage and fruiting stage spray totally 8 times (apply every 10-15 days).

The yield of fertilized area increases by 13.3% than that of water contrast area, and 6.7% than that of common contrast area (see form 7)

Form 7 Effect of Fulvic Acid Powder r on Yield of Tomato

Treatment 	Yield of Test Area (KG/40 m <sup>2</sup> )			Total	Average (KG/40 m <sup>2</sup> )	Computative of per ha (KG)	Comparison %	
	I	II	III				Comparing to B	Comparing to C
A	473	499	463	1435	478	119,500	6.7	13.3
B	459	446	440	1345	448	112,000		6.2
C	450	408	408	1266	422	105,500	5.8	

### 8. Watermelon

To test with 3 treatments: A. Fulvic acid B. Common contrast C. Water contrast Repeat 3 times with the teat area of 30m<sup>2</sup>. To spray with dilution with water for 1500-2000 times, 1-1.5 kg/ha. To spray started from the seedling stage, and then in the vine-extending stage flowering stage, fruiting stage and fruit-swelling stage spray totally 5 times (apply every 10-15 days)

The yield of fertilized area increases by 19.6% than that of water contrast area, and 9.9% than that of common contrast area (see form 8). Tested by LSR, the differences between Fulvic acid Powder area and water contrast area is prominent.

Form 8 Effect of Fulvic Acid Powder on Yield of Watermelon

Treatment	Yield of Test Area (KG/30 m <sup>2</sup> )			Total	Average (KG/30 m <sup>2</sup> )	Computative of per ha (KG)	Comparison %	
	I	II	III				Comparing to B	Comparing to C
A	240	256	237	733	244	81333	9.9	19.6
B	226	229	210	665	222	74000		8.8
C	203	217	193	613	204	68000	8.1	

**9. Wheat**

To test with 3 treatments: A. Fulvic acid Powder B. Common contrast C. Water contrast

Repeat 3 times with the test area of 30m<sup>2</sup>. To spray started from the seedling stage (on April 2<sup>nd</sup>), and then in the jointing stage, heading stage, and late flowering stage spray totally 4 times. To spray with dilution with water for 1500-2000 times, 1-1.5 kg/ha.

The yield of area A increases by 15.43% than that of water contrast area, and thousand kernel weight increases 4.9g (see form 9). Tested by LSR, the differences is highly significant.

Form 9 Effect of Fulvic Acid Powder on Yield of Wheat

Treatment	Yield of Test Area (KG/30 m <sup>2</sup> )			Average (KG/30 m <sup>2</sup> )	Computative of per ha (KG)	Comparison %		Thousand Kernel weight
	I	II	III			Comparing to B	Comparing to C	
A	22.1	21.4	21.7	21.7	7233	8.5	15.43	45.0
B	19.7	20.4	20.0	20.0	6667		6.38	44.0
C	19.2	18.4	18.8	18.8	6267	-6		40.1