

# NFAshwa®

Produced in China GMP-Standard workshop,  
Quality controlled by CNAS-certified Lab.



NF Ashwa®  
Better solubility, better taste, wider applications

## NF Ashwa® New Release of Ashwagandha Extract Series

NF Ashwa® Instant Debittered Ashwagandha and NF Ashwa® Debittered Ashwagandha utilize an innovative bio-extraction process that effectively reduces the bitterness of traditional Ashwagandha extract while preserving key active compounds such as withanolides. This product series also enhances the extract's solubility, enabling it to disperse quickly and evenly in aqueous systems, providing an ingredient solution for innovative applications in functional beverages, health foods, and other related fields.

## Product information

### Specifications:

- NF Ashwa® Debittered Ashwagandha 5%
- NF Ashwa® Instant Debittered Ashwagandha 5%

**Withaferin A:** ≤0.1%

**Test Method:** HPLC

**Test Standard:** USP

## Certifications



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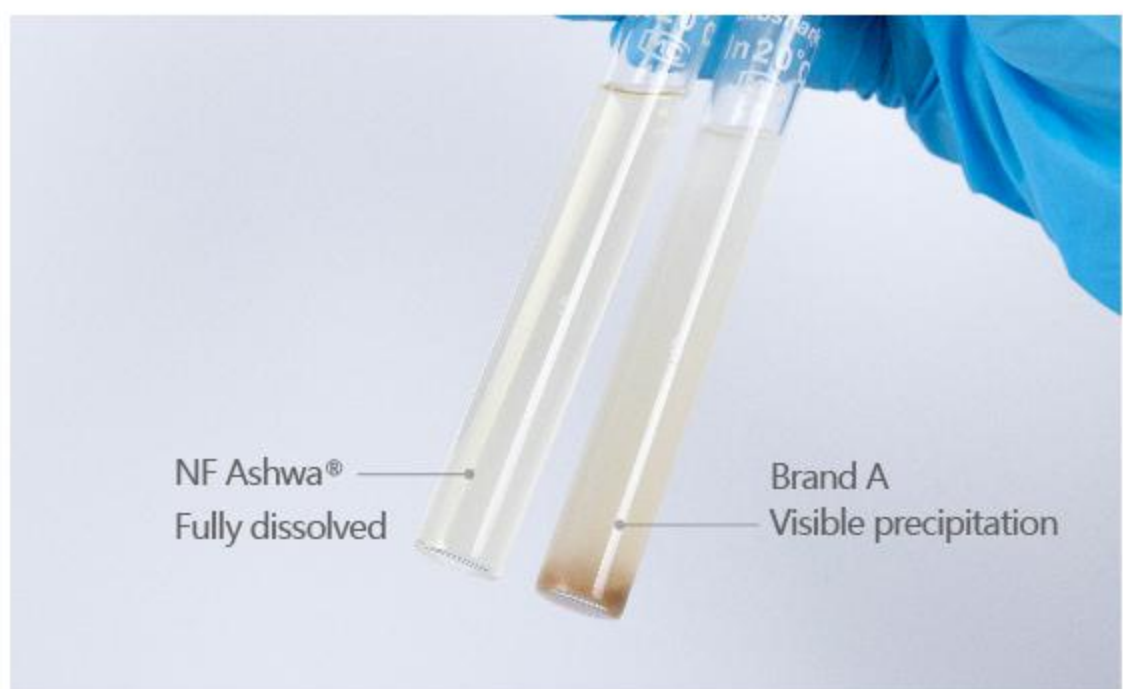
www.natural-field.com



# NF Ashwa® Advantages

- ✓ Ayurvedic Traditional Herb, Natural Source.
- ✓ USP Standard, Quality Controlled by CNAS-Certified Lab.
- ✓ Cutting-edge Technology: Led by Academicians and a team of over 30 experts with strong pharmaceutical backgrounds, dedicated to R&D for 20 years.
- ✓ Efficacy Verification: Product efficacy certified by authoritative third-party organization.
- ✓ Patent-supported and advanced (biological) detoxification extraction process.
- ✓ Customized Services: Comprehensive technical support from product usage to efficacy evaluation based on customer needs, providing solutions for various applications.

## NF Ashwa® Instant Debittered 5% Solubility Display



▲ Solubility comparison with market brands

▲ Solubility comparison with market brand

## Functions



## Summary

The specific biological mechanisms of Ashwagandha extract are still under continuous research. Scientists and research institutions worldwide are actively exploring them. Due to its potential effects in neuroendocrine regulation, immunomodulation, antioxidant and anti - inflammatory activities, this extract is being increasingly applied in the nutraceutical field and has attracted significant attention.

NF Ashwa® Efficacy Verification

NF Ashwa® Ashwagandha Extract  
"Verified by Zebrafish" efficacy certification has been obtained



Table 2.Relief anxiety effect of sample(n=10)

Group	Concentration (μg/mL)	Total movement distance (mm,mean± SE)	Relief anxiety effect(%)	p-value	Test results
Control	-	3680±140	-	<0.05	-
Model	-	4866±382	-	-	-
Estazolam	5.00	3309±369	32	<0.01	Significant
NF Ashwa® Ashwagandha Extract	50.0	3427±107	30	<0.01	Significant

The experimental phenotype and column chart for the effect of sample are shown in Figure 1 and Figure 2 below.

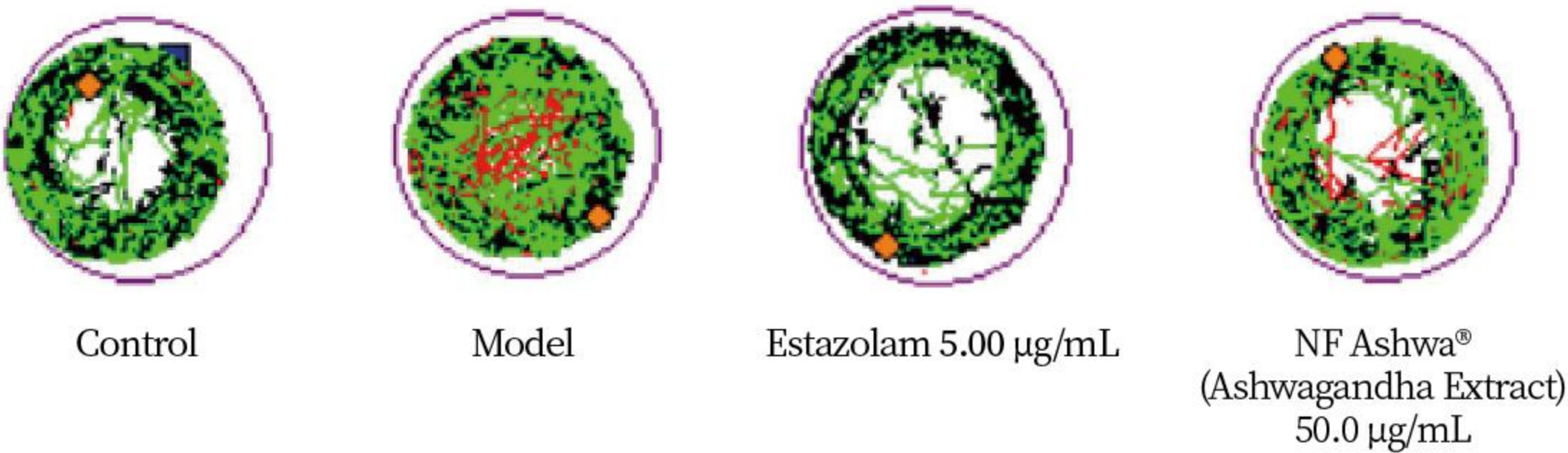


Figure 1. The behavioral typical diagram after NF Ashwa® Ashwagandha Extract treatment  
The black line is slow motion, the green line is medium movement, and the red line is fast movement

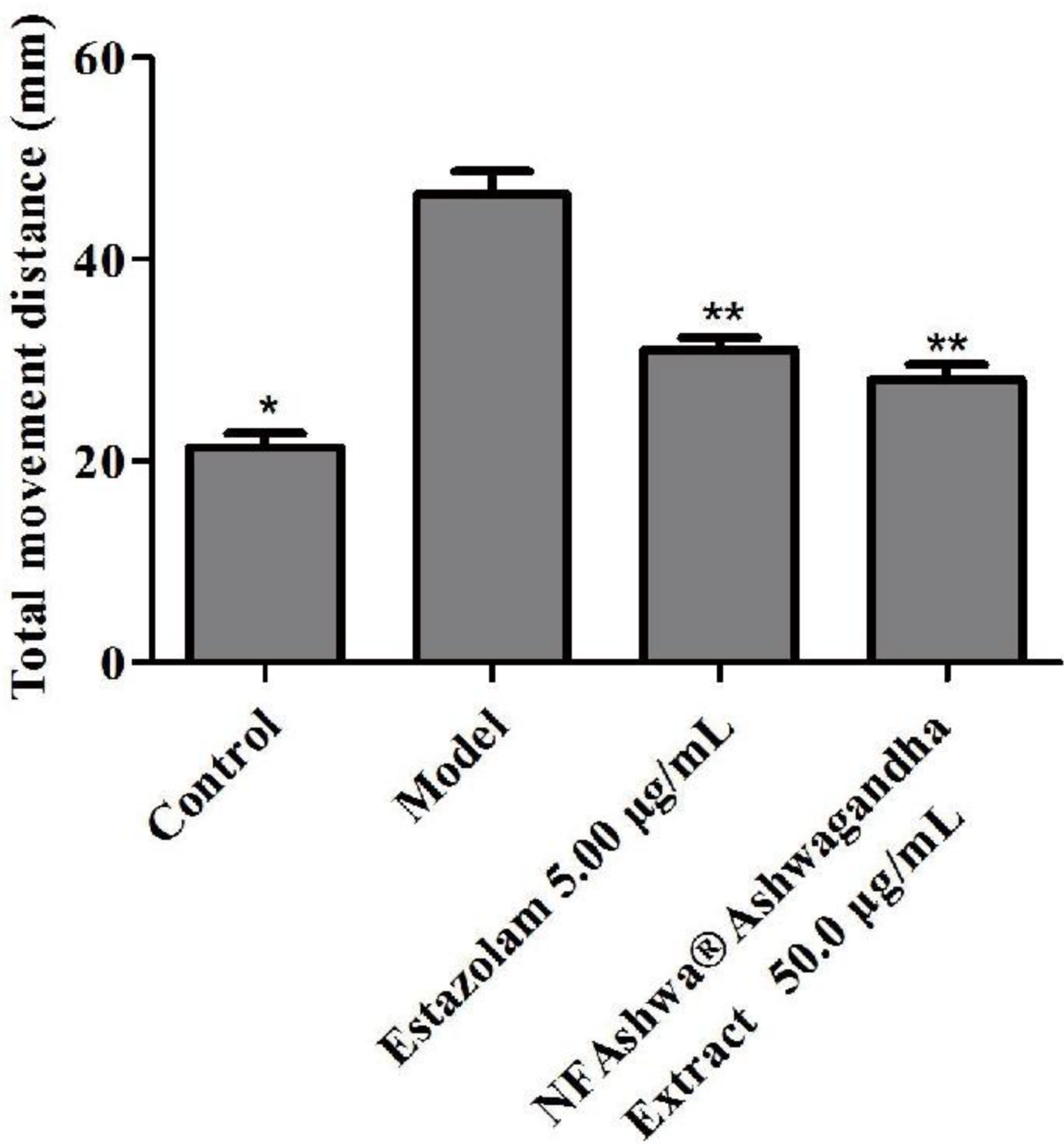


Figure 2. The total movement distance after NF Ashwa® Ashwagandha Extract treatment  
Compared with model group, \*p<0.05, \*\*p<0.01

It was observed that the total movement distance in zebrafish in the NF Ashwa® Ashwagandha Extract group was significantly reduced compared with the model control group, indicating that NF Ashwa® Ashwagandha Extract has a relief anxiety effect.

Table 2. Enhance immune effect of sample (n = 10)

Group	Concentration (μg/mL)	The number of residual fluorescent particles (number, mean ± SE)	Enhance immune effect(%)	p-value	Test results
Control	-	21.4±1.32	-	<0.001	-
Model	-	46.4±2.33	-	-	-
Broken fungus spore powder	250	30.0±1.22	33	<0.001	Significant
NF Ashwa® Ashwagandha Extract	50.0	28.1±1.47	39	<0.001	Significant

The experimental phenotype and column chart for the effect of sample are shown in Figure 1 and Figure 2 below.

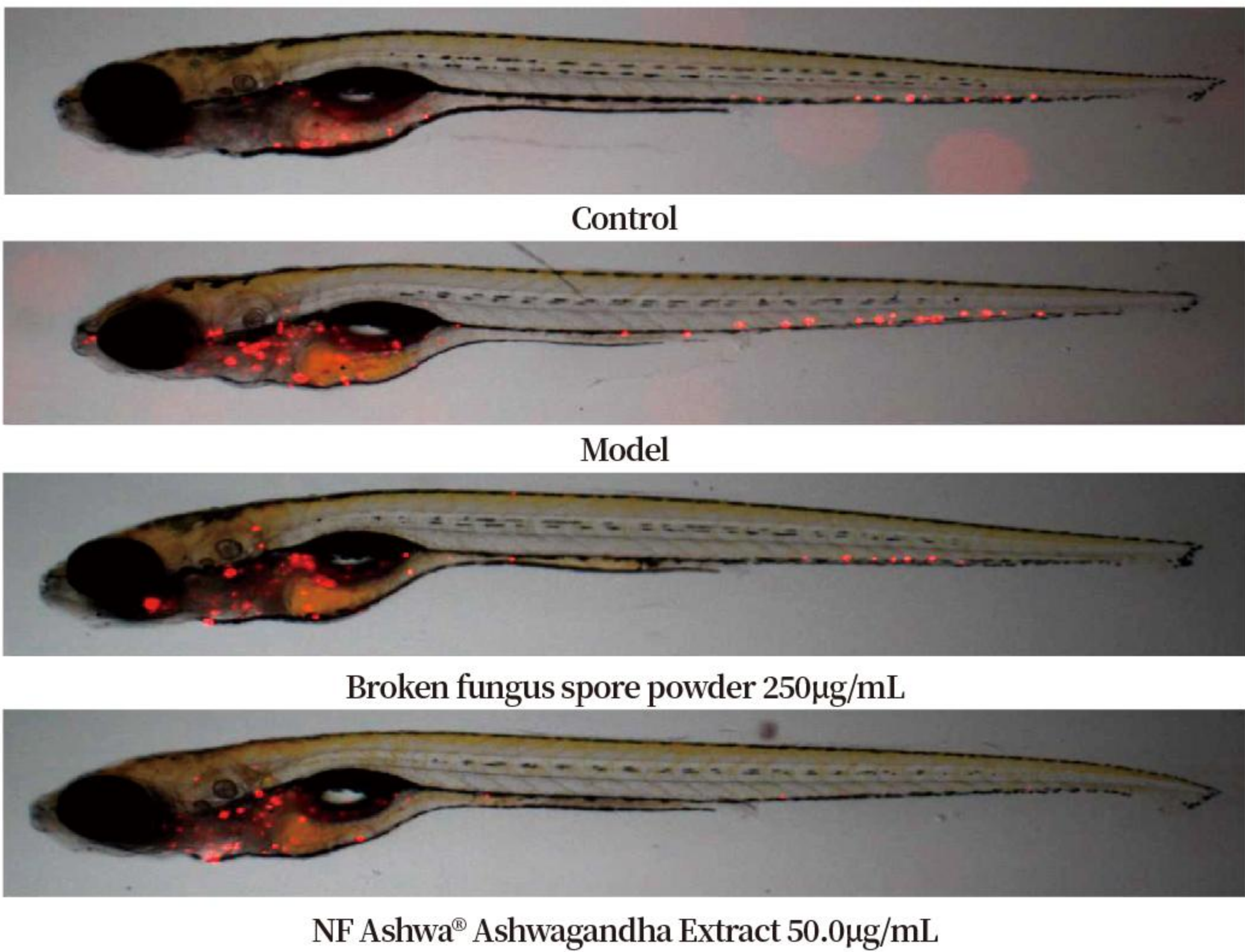


Figure 1. The number of residual fluorescent particles after NF Ashwa® Ashwagandha Extract treatment  
The red fluorescent particles are fluorescent microspheres

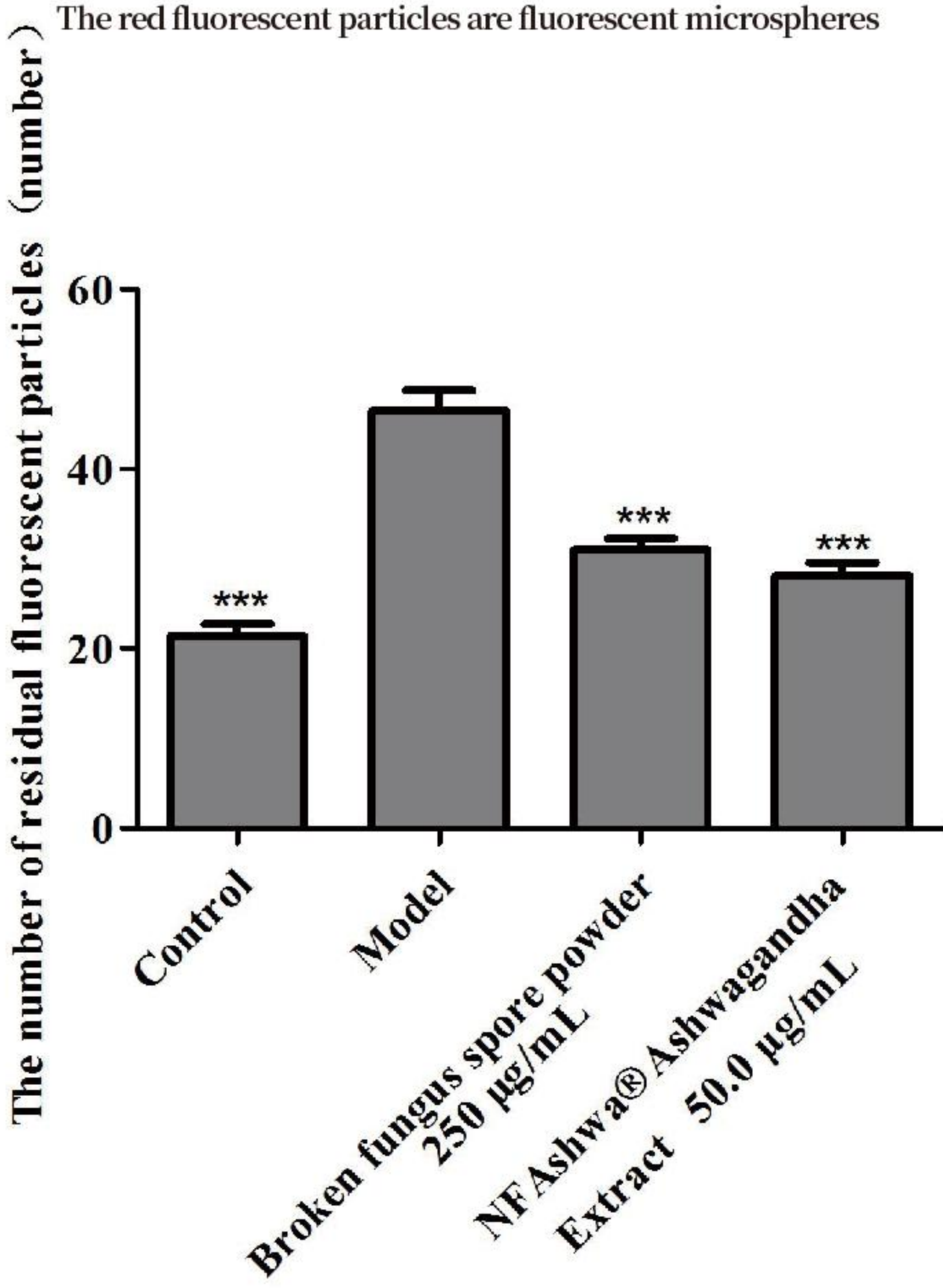


Figure 2. The number of residual fluorescent particles after NF Ashwa® Ashwagandha Extract treatment compared with model group,  
\*\*\*p < 0.001

It was observed that the number of residual fluorescent particles in zebrafish in the NF Ashwa® Ashwagandha Extract group was significantly reduced compared with the model control group, indicating that NF Ashwa® Ashwagandha Extract has enhanced immune effect.

NF Ashwa® Efficacy Verification

NF Ashwa® Debittered Ashwagandha 5%  
& NF Ashwa® Instant Debittered Ashwagandha 5%



Table 2. Improve sleep effect of sample (n = 10)

Group	Concentration (μg/mL)	The total awakening time (S,mean± SE)	Improve sleep effect (%)	p-value	Test results
Control	-	0.517±0.079	-	< 0.001	-
Model	-	18.3 ± 1.88	-	-	-
Melatonin	125	5.15 ± 0.343	72	< 0.001	Significant
NF Ashwa® Debittered Ashwagandha 5%	75.0	6.12 ± 0.325	67	< 0.001	Significant

The experimental phenotype and column chart for the effect of sample are shown in Figure 1-3 below.

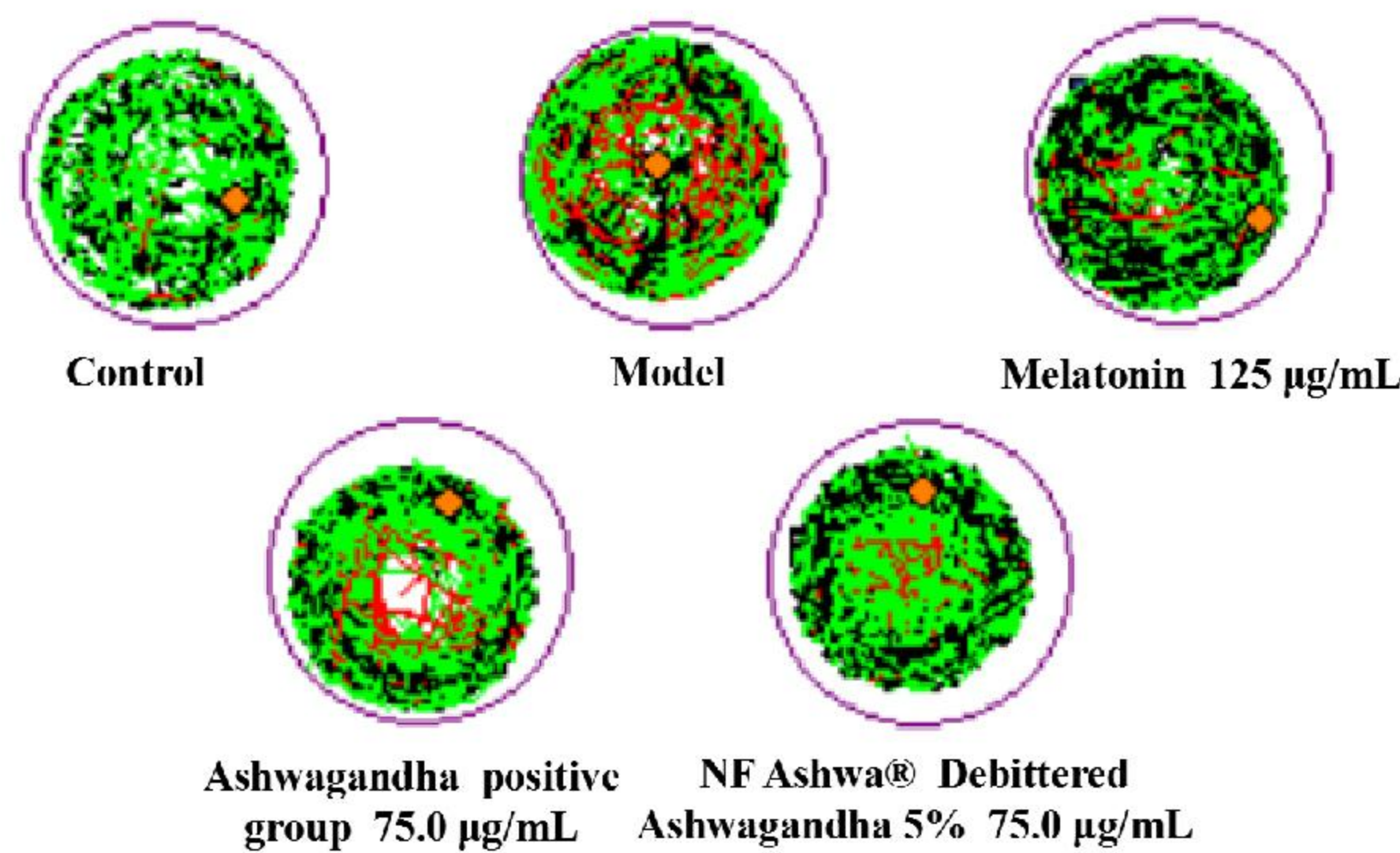


Figure 1. The behavioral typical diagram after NF Ashwa® Debittered Ashwagandha 5% treatmentThe black line is slow motion, the green line is medium movement, and the red line is fast movement

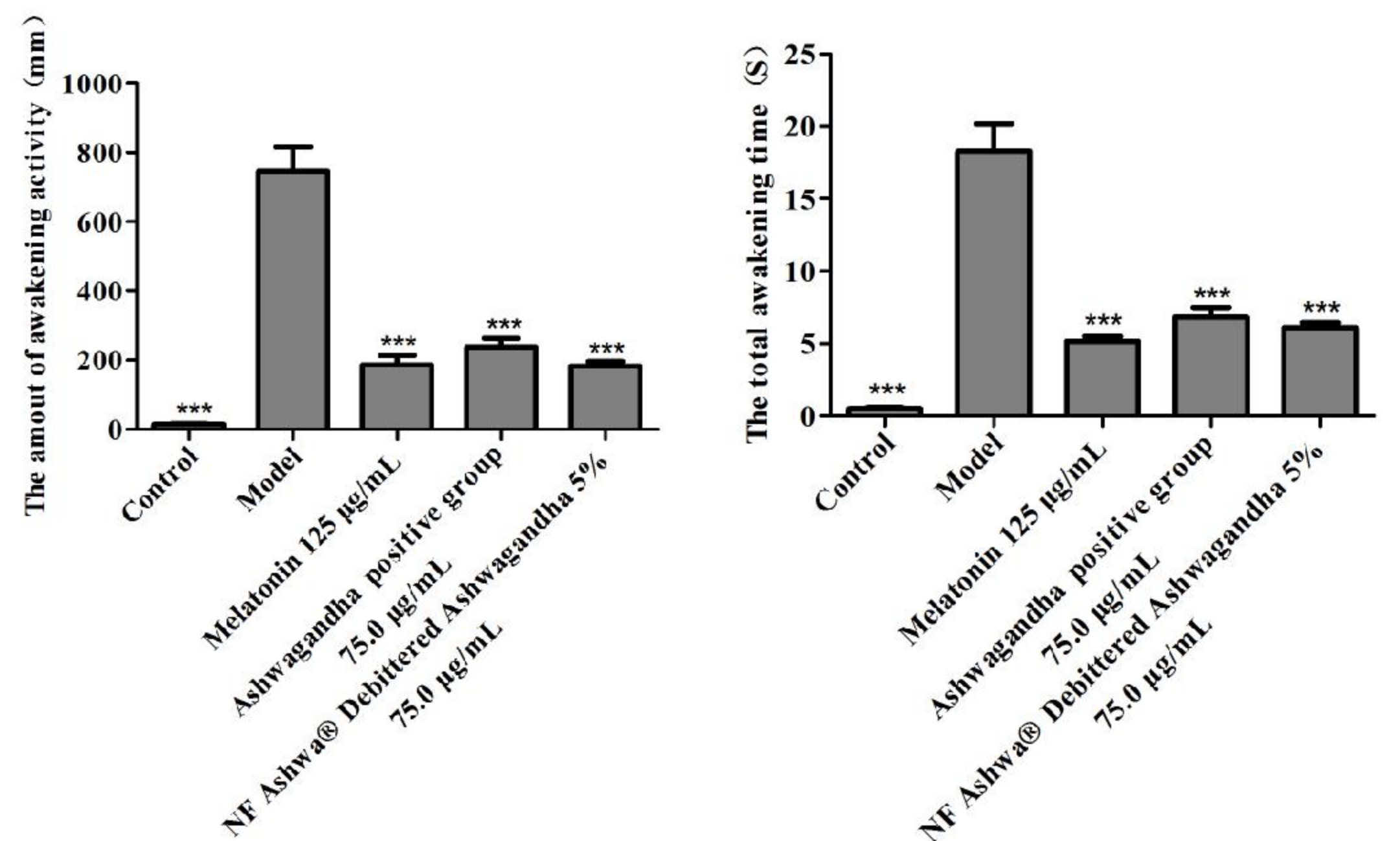


Figure 2. The amount of awakening activity after NF Ashwa® Debittered Ashwagandha 5% treatmentCompared with model group, \*\*\*p < 0.001

Figure 2. The total awakening time after NF Ashwa® Debittered Ashwagandha 5% treatmentCompared with model group, \*\*\*p < 0.001

It was observed that the amount of awakening activity and the total awakening time in zebrafish in the NF Ashwa® Debittered Ashwagandha 5% group was significantly reduced compared with the model control group, indicating that NF Ashwa® Debittered Ashwagandha 5% has improved sleep effect.

Table 2. Improve sleep effect of sample (n = 10)

Group	Concentration (μg/mL)	The total awakening time (S,mean± SE)	Improve sleep effect (%)	p-value	Test results
Control	-	0.517±0.079	-	< 0.001	-
Model	-	18.3 ± 1.88	-	-	-
Melatonin	125	5.15 ± 0.343	72	< 0.001	Significant
NF Ashwa® Instant Debittered Ashwagandha 5%	75.0	6.79 ± 0.297	63	< 0.001	Significant

The experimental phenotype and column chart for the effect of sample are shown in Figure 1-3 below.

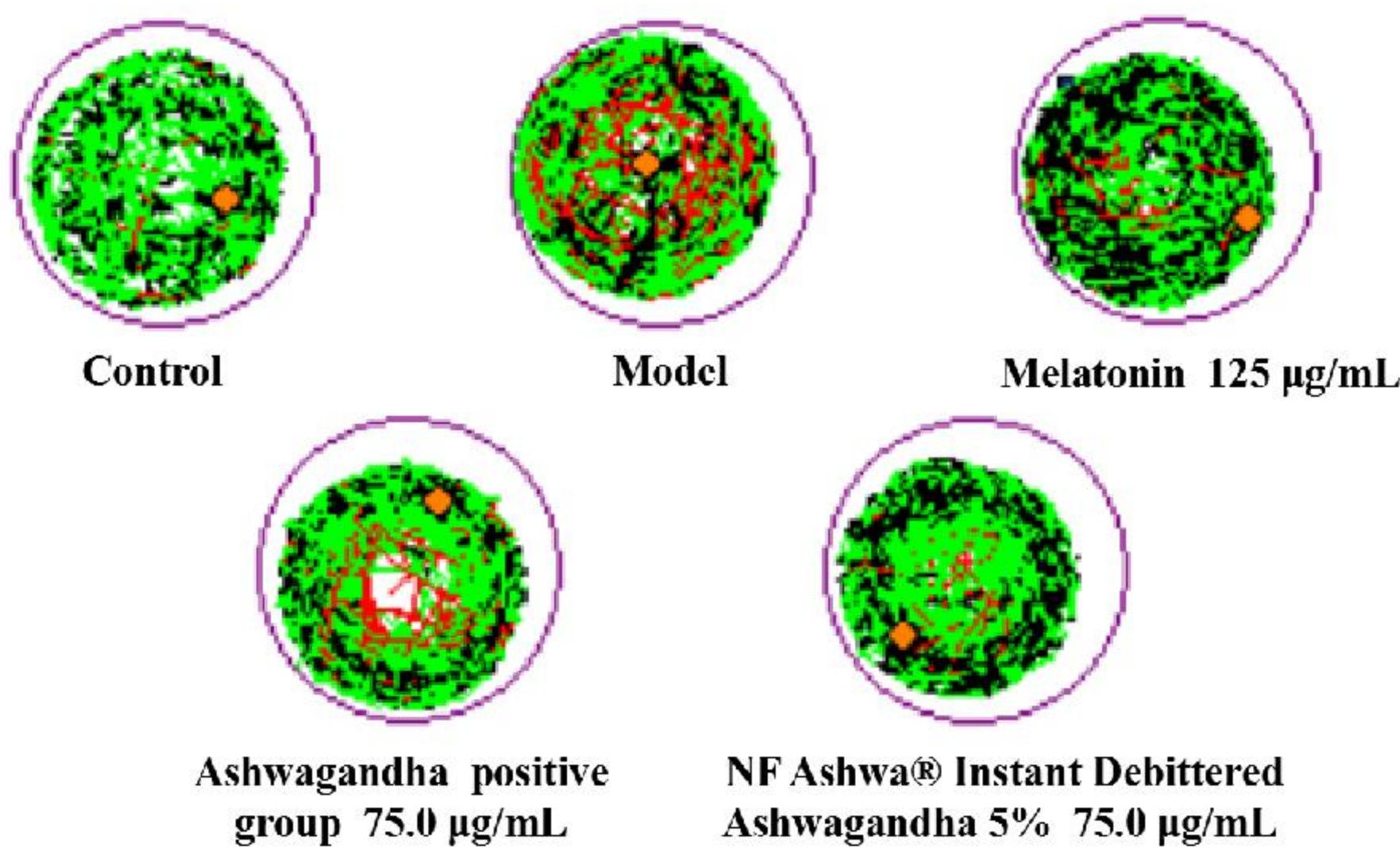


Figure 1. The behavioral typical diagram after NF Ashwa® Instant Debittered Ashwagandha 5% treatmentThe black line is slow motion, the green line is medium movement, and the red line is fast movement

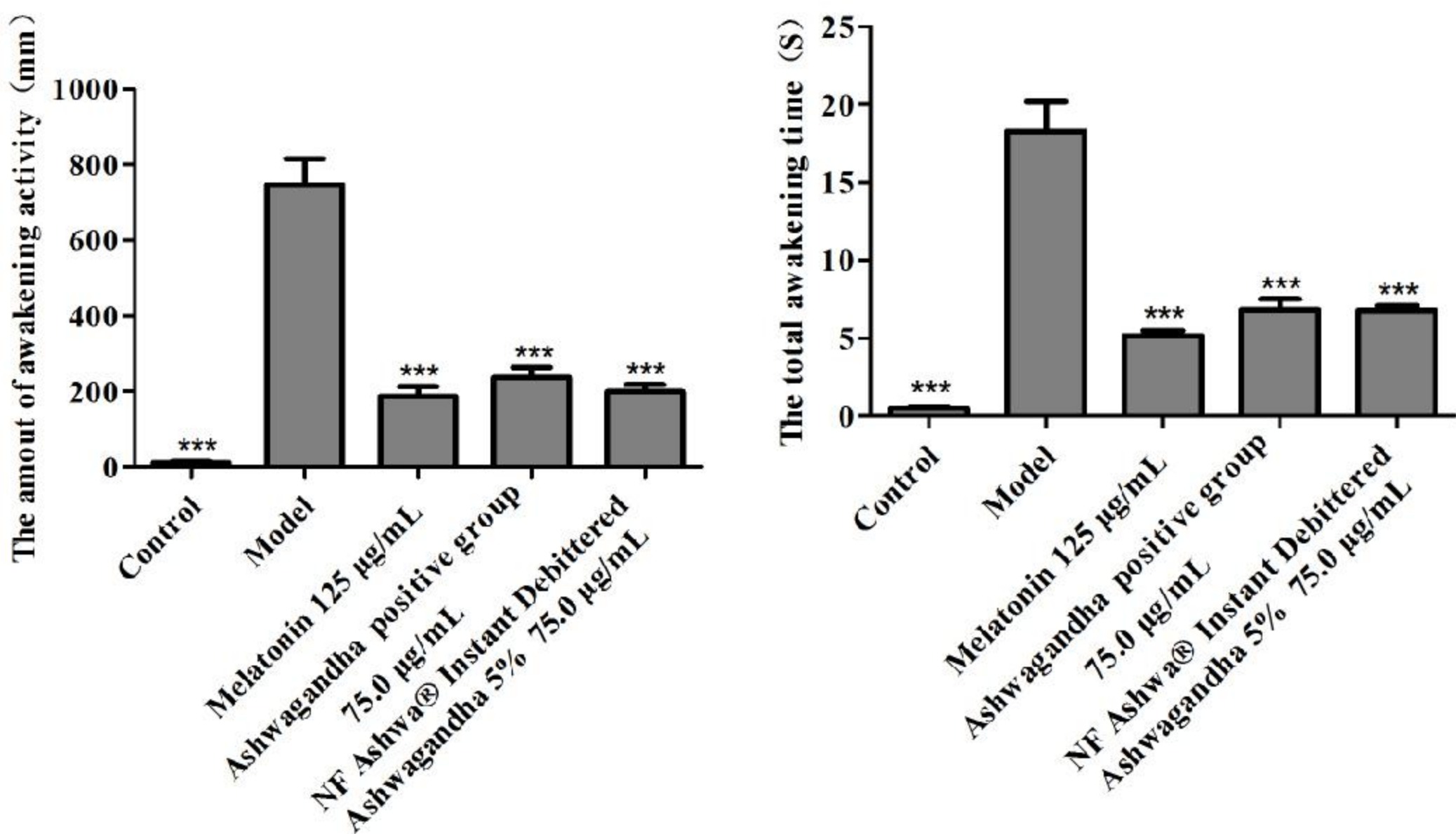


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It was observed that the amount of awakening activity and the total awakening time in zebrafish in the NF Ashwa® Instant Debittered Ashwagandha 5% group was significantly reduced compared with the model control group, indicating that NF Ashwa® Instant Debittered Ashwagandha 5% has improved sleep effect.

Customized Solutions

We can work closely with you to create customized Ashwagandha dosage tailored to your unique needs. At Natural Field, we specialize in the R&D of premium nututrition ingredients, manufactured on-site in our facility under strict GMP guidelines. Backed by over 20 patents and published studies, our innovative products are highly effective and globally recognized. Partner with us to stay ahead of the competition!