

ToxGenie Point Estimation Report

Report Date: 2026-06-28 11:57:55

Study Title: Zebrafish (Danio rerio) Acute Toxicity Test	
Analysis Method: Spearman-Karber Method (SK Example A)	
Study No.: Sample-123	Test Material: Test Chemical
Test Species: Zebrafish (Danio rerio)	Test Medium: Natural Spring Water

Table 1. Data Summary for Spearman-Karber Method

(Unit: mg/L)

Dose	log10 Dose	No. Exposed	No. Responding	Proportion
Control	Control	10	0	0.0000
1.8	0.2553	10	0	0.0000
3.2	0.5051	10	0	0.0000
5.6	0.7482	10	4	0.4000
10	1.0000	10	10	1.0000
18	1.2553	10	10	1.0000

Table 2. Spearman-Karber Calculations on the test data

(Unit: mg/L)

Dose	Proportion	Smoothed RP	Smoothed ARP
Control	0.0000	0.0000	0.0000
1.8	0.0000	0.0000	0.0000
3.2	0.0000	0.0000	0.0000
5.6	0.4000	0.4000	0.4000
10.0	1.0000	1.0000	1.0000
18.0	1.0000	1.0000	1.0000

(Smoothed RP: Smoothed Response Proportion, Smoothed ARP: Smoothed Adjusted Response Portion)

Table 3. Point Estimates

(Unit: mg/L)

Level	Estimates	95% Lower Confidence Limit	95% Upper Confidence Limit
EC50	5.95832	4.94670	7.17683

Confidence Limits calculated by Spearman-Karber method.

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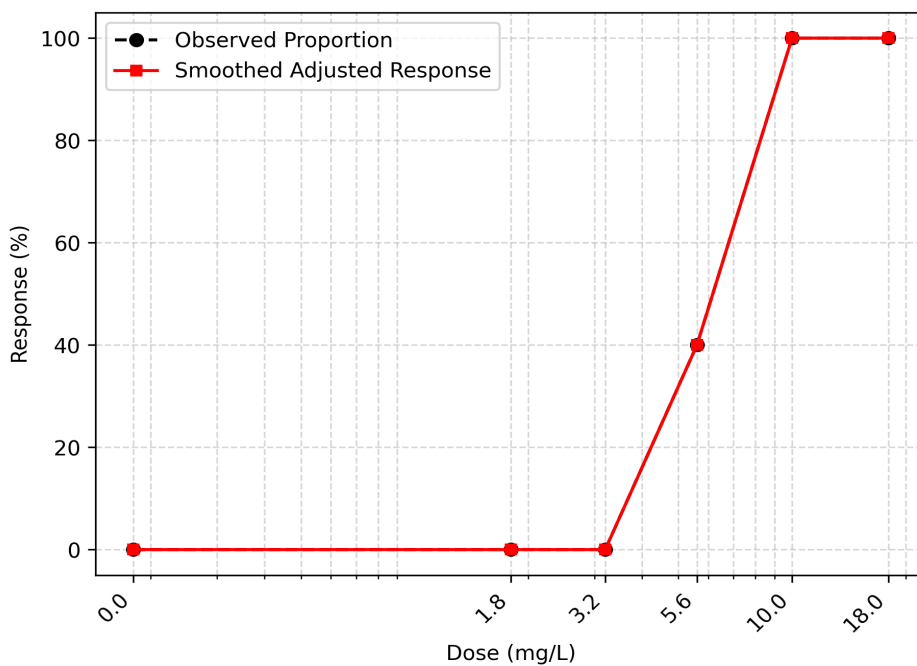


Figure 1. Dose-Response Curve for SK Example A.

Analyst: ToxGenie