

ToxGenie Point Estimation Report

Report Date: 2026-06-23 09:47:42

Study Title: Zebrafish (Danio rerio) Acute Toxicity Test			
Analysis Method: Spearman-Karber Method (48-hour)			
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	20	0	0.0000
6	0.7782	20	0	0.0000
13	1.1139	20	0	0.0000
25	1.3979	20	0	0.0000
50	1.6990	20	2	0.1000
100	2.0000	20	20	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
6.0	0.0000	0.0000	0.0000
13.0	0.0000	0.0000	0.0000
25.0	0.0000	0.0000	0.0000
50.0	0.1000	0.1000	0.1000
100.0	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
LC50	65.97540	59.97157	72.58028

Confidence Limits calculated by Spearman-Karber method.

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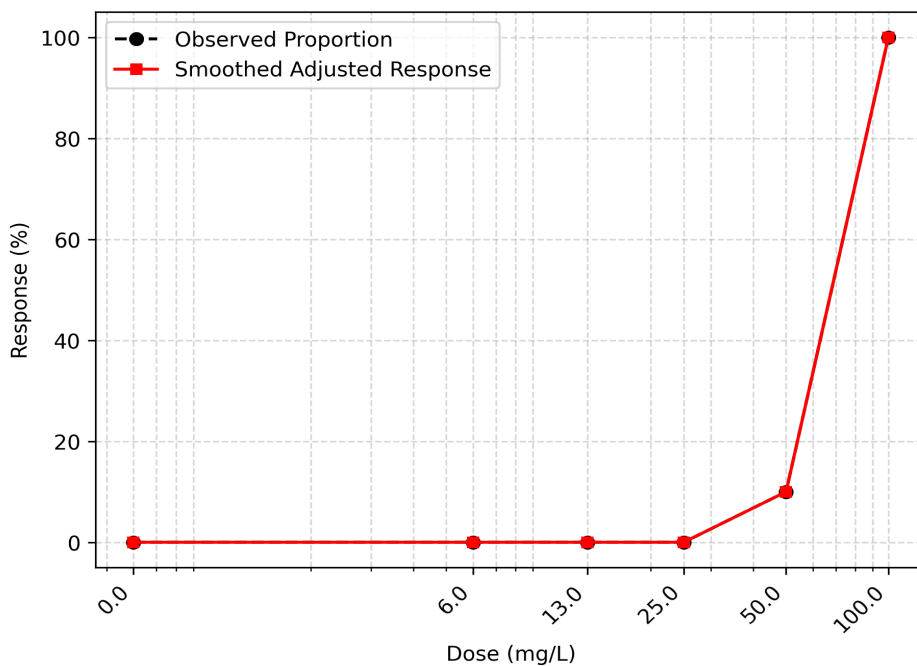


Figure 1. Dose-Response Curve for 48-hour.

Analyst: ToxGenie