ToxGenie Point Estimation Report

Report Date: 2026-06-28 11:36:51

Study Title:	**Zebrafish (Danio rerio) Acute Immobilisation Test**
Analysis Method:	Moving Average-Angle Method (Example D)

Study No.:	Sample-123	**Test Material:**	Test Chemical
Test Species:	Zebrafish (Danio rerio)	**Test Medium:**	Natural Spring Water

Table 1. Data Summary for Moving Average-Angle Method

(Unit: %)

Dose	log10 Dose	No. Exposed	No. Responding	Proportion	Angle	Average Angle
Control	Control	20	0	0.0000	6.4193	nan
6.25	0.7959	20	0	0.0000	6.4193	nan
12.5	1.0969	20	0	0.0000	6.4193	6.4193
25	1.3979	20	0	0.0000	6.4193	32.1398
50	1.6990	20	20	1.0000	83.5807	57.8602
100	2.0000	20	20	1.0000	83.5807	nan

(nan: not-a-number)

Table 2. Point Estimates

(Unit: %)

Level	Estimates	95% Lower Confidence Limit	95% Upper Confidence Limit
LC50	35.35534	29.43545	42.46580

Confidence Limits calculated using Fieller's theorem adapted for Moving-Average method.

G = 0.05295*

*If G is greater than 0.2, caution should be exercised in using the endpoint and confidence intervals. As G approaches 1.0, the endpoint and confidence limits become meaningless.

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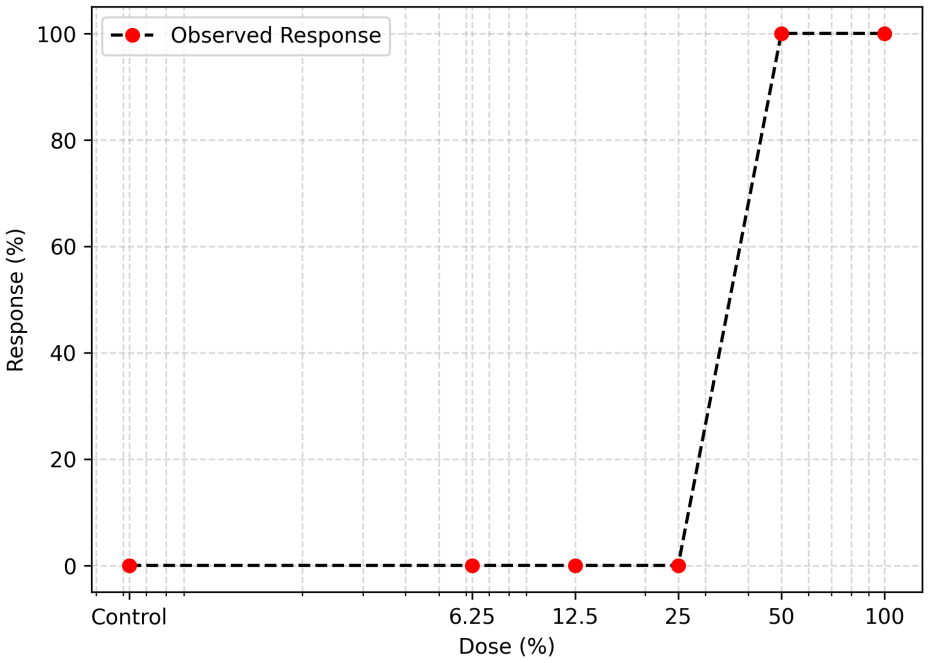

Figure 1. Dose-Response Curve for Example D.

Analyst: ToxGenie