

# Zebrafish Larval Locomotor Activity is Altered by Dimethyl Sulfoxide Under Two Different Exposure Scenarios



Dimethyl sulfoxide (DMSO) is a widely used chemical solvent. We investigated routinely used concentrations in zebrafish locomotor assays.

## Developmental Exposure:

DMSO given during development

(6-8 hours post fertilization through 144 hours post fertilization)

144 hpf larva

Locomotor Assay

Larval Assessment

Light Dark

## Acute Exposure:

DMSO given acutely 1.5 h before locomotor test  
(144 hours post fertilization)

144 hpf larva

Locomotor Assay

Larval Assessment

Light Dark

**Only morphologically normal larvae were included**  
(n~60 for controls and 40 for DMSO concentrations)

## DMSO can be a confounding factor in zebrafish assays

