



## Livent Animal Welfare Policy

**Updated: December 2019**  
**Policy Owner: Sustainability**

**Geographic Scope: Global**  
**Global Site Scope: All Livent**

### A. Policy Purpose

Livent is committed to making products that are safe for people and the environment and that meet global regulatory standards. From time to time we are required to conduct animal testing. Livent takes animal testing seriously and strives to limit such testing. We are committed to using alternatives to animal testing methods when feasible to reduce the need for animal studies. This policy serves to solidify our commitments pertaining to animal welfare, build increased trust with our external stakeholders, and demonstrate international good business practices.

### B. Scope

This policy covers all areas of Livent in which animal testing is conducted.

### C. Guiding Principles

Livent adheres to these guiding principles for animal testing:

- **Replace** animal tests with alternative methods where feasible
- **Reduce** the number of test animals used when feasible
- **Refine** animal test methods to make them as humane as possible

### D. Commitments

Livent is committed to:

- Employing scientifically validated alternative methods to animal testing where feasible
- Participating in industry task forces to minimize redundant animal testing and to extract the maximum value from existing studies
- Using the minimum number of animals to make scientifically and statistically valid conclusions when animal testing is needed to determine the safety or efficacy of our products
- Conducting animal testing only at laboratories that adhere to the humane care of animals, provide adequate animal housing facilities, have trained animal care personnel, and have procedures in place that avoid unnecessary distress to animals
- Verifying that all animal studies are conducted in laboratories that comply with applicable laws, regulations and licensing requirements
- Working towards the development, validation and adoption of non-animal testing methods through industry collaboration