



► Our commitment to responsible and ethical treatment of animals used in research ◀

Syensqo uses science and innovation to advance chemistry and enable sustainability. The Company is committed to ensuring its products are safe for customers and end-users and complies with international regulations to protect human health and the environment. Globally, these regulations may require studies in animals in order to identify potential hazards in substances.

Syensqo applies many different methods to deliver products that are safe and sustainable by design, including in-vitro and in-silico methods, and animal studies only where necessary.

This policy outlines how Syensqo manages impacts related to animal care and use. It describes the principles Syensqo personnel and contractors must adhere to when commissioning studies involving animals.

Our commitment

Syensqo takes the ethical care and use of animals in research seriously. The Company assumes responsibility to ensure minimal and humane use of laboratory animals and employs best-practices in animal welfare.

Syensqo does not have its own animal testing facilities, but maintains a company-wide approach to partnering with laboratories/Contract Research Organizations (CROs) to ethically conduct studies in animals. The Company complies with all applicable laws and regulations and abides by the “3R Principles”:¹

- **Replacement:** Substituting the use of living animals in experiments with non-animal methods, such as *in vitro* methods and computer modeling, or utilizing existing data from comparable substances.
- **Reduction:** When replacement is not feasible, minimizing the number of animals used to obtain necessary data.
- **Refinement:** When replacement and reduction options are exhausted, optimizing study protocols to gather maximum essential data from each animal used, which can decrease the number of tests required. Refinement also encompasses enhancements to scientific procedures to improve animal welfare and care practices, minimizing suffering or distress.

Our approach

Syensqo’s comprehensive approach to animal welfare is in line with the aims of the United Nations’ Sustainable Development Goals (SDG 12 - “Ensure sustainable consumption and production patterns”), as well as regional and local legislation.²



Implementation of the 3R Principles

Regarding Replacement, Syensqo aims to avoid animals as sources for primary cells or tissues by using alternatives like yeast, mold, fungi, or bacteria cells, or by employing cell lines originally derived from animals but subsequently cultured in labs. Syensqo prioritizes non-animal testing methods and considers animal testing only as a last resort, limited to regulatory requirements or when alternative methods (e.g., *in vitro* or *in silico*, also known as New Approach Methods) are unavailable, inapplicable, or insufficient for meeting testing requirements.³ New Approach Methods (NAMs) are implemented as soon as feasible following regulatory acceptance.

Regarding Reduction, Syensqo prioritizes carefully designed statistical methods, selecting the most appropriate species and strains, and opting for study guidelines that require fewer animals to achieve the same results. Additionally, preference is given to models allowing animals to be reused for multiple studies, such as imaging techniques, to further reduce the number of animals needed.

Regarding Refinement, Syensqo selects study designs which maximize data from each animal used. Moreover, refinement includes improvements to scientific procedures and care that minimize actual or potential pain, suffering, distress or lasting harm and/or improve animal welfare in situations where the use of animals is unavoidable.

Animal care and laboratory selection

As Syensqo does not have its own facilities, it applies strict criteria regarding laboratory/CRO selection.

CROs should have an ethical committee whose purpose is to review and approve studies with laboratory animals according to internationally recognized animal welfare criteria and national requirements. Where this is not demonstrated, subcontracting can only occur when animal welfare issues are specifically addressed.

Studies in animals should be conducted in accordance with the Organisation for Economic Co-operation and Development (OECD) principles of Good Laboratory Practice, which ensure high-quality, reliable, and ethically conducted research.⁴ Some exceptions are needed for early, small-scale tests, like those determining safe dose ranges. Where a study does not meet Good Laboratory Practice, the reasons and any effects this may have on the study's usefulness must be assessed, documented, and internally tracked.

Limitations to the animals species used

Typically, animal studies involve rats, mice, rabbits and fish, though a few studies use guinea pigs, amphibians, or other vertebrates. Syensqo does not use non-human primates, cats, dogs, or other large animals as routine test species.

Syensqo's definition of animals follows European Union law.⁵ All animals used have to be specifically bred for research purposes and obtained from officially recognized and inspected breeders.



Syensqo Animal Care and Use Committee

The Syensqo Animal Care and Use Committee (SACUC) oversees the company's Animal Care and Use Policy, aiming to minimize animal experimentation.

Comprising members with expertise across technical, regulatory, and public affairs fields, SACUC reviews Syensqo's adherence to mandatory animal study regulations and efforts to minimize studies in animals. Additionally, SACUC communicates Syensqo's Animal Care and Use Policy to relevant stakeholders and identifies necessary improvements.

Data sharing

Syensqo complies with all regulations which mandate data sharing between companies to avoid duplication of studies in animals. Even where regulatory requirements do not apply, the Syensqo makes every reasonable effort to acquire data from existing animal studies rather than conducting new ones.

Memberships

Syensqo is a member of the European Partnership for Alternative Approaches to Animal Testing (EPAA), pooling efforts to accelerate alternative approaches to animal studies at national, European, and global levels.⁶ It also takes part in NAM related working groups in professional associations such as the European Chemical Industry Council (CEFIC).⁷

About Syensqo and implementation of this policy

Syensqo is a science company with more than 13,000 employees across 30 countries. Its solutions contribute to safer, cleaner, and more sustainable products found in homes, food and consumer goods, planes, cars, batteries, smart devices and health care applications.

Syensqo's Animal Care and Use Policy is applicable to all of its operations and businesses.

The Animal Care and Use Policy is communicated to all employees and potentially affected stakeholders and is published on Syensqo's corporate website.

Syensqo's Board of Directors has approved the Company's Corporate Governance and Ethics & Compliance strategy. The Executive Leadership Team has approved the Company's Animal Care and Use Policy, and the Group Product Stewardship Director is accountable for implementation.

References

1. Russell, W.M.S., and R.L. Burch. *The Principles of Humane Experimental Technique*. Methuen, 1959.
2. United Nations. *The Sustainable Development Goals Report 2023*. United Nations, 2023, <https://unstats.un.org/sdgs/report/2023/>.
3. European Partnership for Alternative Approaches to Animal Testing (EPAA). "New Approach Methodologies: A Summary." EPAA, 2021, www.epaa.eu/new-approach-methodologies-summary.
4. Organisation for Economic Co-operation and Development (OECD). *OECD Principles of Good Laboratory Practice*. OECD, 1998, doi:10.1787/9789264071087-en.



5. European Parliament and Council. Directive 2010/63/EU of the European Parliament and of the Council of 22 September 2010 on the Protection of Animals Used for Scientific Purposes. Official Journal of the European Union, L276, 20 Oct. 2010, pp. 33–79.
6. European Partnership for Alternative Approaches to Animal Testing (EPAA). EPAA. www.epaa.eu.
7. European Chemical Industry Council (CEFIC). CEFIC. www.cefic.org.