



Home Office

NON-TECHNICAL SUMMARY

Project with protocols

Project duration

5 years 0 months

Project purpose

None selected

Key words

No answer provided

No data available

Retrospective assessment

The Secretary of State has determined that a retrospective assessment of this licence is not required.

Objectives and benefits

Description of the projects objectives, for example the scientific unknowns or clinical or scientific needs it's addressing.

What's the aim of this project?

No answer provided

Potential benefits likely to derive from the project, for example how science might be advanced or how humans, animals or the environment might benefit - these could be short-term benefits within the duration of the project or long-term benefits that accrue after the project has finished.

Why is it important to undertake this work?

No answer provided

What outputs do you think you will see at the end of this project?

No answer provided

Who or what will benefit from these outputs, and how?

No answer provided

How will you look to maximise the outputs of this work?

No answer provided

Species and numbers of animals expected to be used

No data available

Predicted harms

Typical procedures done to animals, for example injections or surgical procedures, including duration of the experiment and number of procedures.

Explain why you are using these types of animals and your choice of life stages.

No answer provided

Typically, what will be done to an animal used in your project?

No answer provided

What are the expected impacts and/or adverse effects for the animals during your project?

No answer provided

Expected severity categories and the proportion of animals in each category, per species.

What are the expected severities and the proportion of animals in each category (per animal type)?

No answer provided

What will happen to animals at the end of this project?

None selected

Replacement

State what non-animal alternatives are available in this field, which alternatives you have considered and why they cannot be used for this purpose.

Why do you need to use animals to achieve the aim of your project?

No answer provided

Which non-animal alternatives did you consider for use in this project?

No answer provided

Why were they not suitable?

No answer provided

Reduction

Explain how the numbers of animals for this project were determined. Describe steps that have been taken to reduce animal numbers, and principles used to design studies. Describe practices that are used throughout the project to minimise numbers consistent with scientific objectives, if any. These may include e.g. pilot studies, computer modelling, sharing of tissue and reuse.

How have you estimated the numbers of animals you will use?

No answer provided

What steps did you take during the experimental design phase to reduce the number of animals being used in this project?

No answer provided

What measures, apart from good experimental design, will you use to optimise the number of animals you plan to use in your project?

No answer provided

Refinement

Give examples of the specific measures (e.g., increased monitoring, post-operative care, pain management, training of animals) to be taken, in relation to the procedures, to minimise welfare costs (harms) to the animals. Describe the mechanisms in place to take up emerging refinement techniques during the lifetime of the project.

Which animal models and methods will you use during this project? Explain why these models and methods cause the least pain, suffering, distress, or lasting harm to the animals.

No answer provided

Why can't you use animals that are less sentient?

No answer provided

How will you refine the procedures you're using to minimise the welfare costs (harms) for the animals?

No answer provided

What published best practice guidance will you follow to ensure experiments are conducted in the most refined way?

No answer provided

How will you stay informed about advances in the 3Rs, and implement these advances effectively, during the project?

No answer provided