

Plan of Experiment and Research

1 Purpose of importation (Please describe why you need to import the item.)

Healthy pig cornea samples need to be imported from Singapore to Japan for use in SPring-8 experiment theme, "Structural analysis of the cornea of the living eye through the combined use of x-ray scattering, biomedical imaging, and machine learning." The healthy pig cornea samples will be subject to optical coherence tomography at the Singapore Eye Research Institute (SERI) before they are imported to Japan for testing and research on x-ray scattering measurements.

2 Name, address, affiliation, and title of the person responsible for testing and research as well as handling of pathogens

Person responsible for the experiment theme

Name: ○○ (Name)

Address: ×××× (Address)

Affiliation: ×× Laboratory (Organization)

Job title: Research Scientist

Person responsible for handling: ○○ (Name)

1-1-1 Kouto, Sayo-cho, Sayo-gun, Hyogo

Japan Synchrotron Radiation Research Institute Research & Utilization Division

3 Properties of pathogens to be imported and their pathogenicity and infectivity to animals

(Fill in this section if you are going to import pathogens, samples for pathological examination, or full-length genomic nucleic acids of viruses.)

The general property of the pig cornea samples used in this testing and research is that it is a biological tissue for focusing visual information onto the retina of the eye. The samples will be collected at a meat processing plant in Singapore. Import of pig-derived samples from Singapore is prohibited.

4 Use of imported pathogens and specific plan of experiments

The pig cornea for this testing and research will be used as measurement samples in x-ray scattering. The pig cornea will be enclosed in film and hydrated. It will be irradiated with x-ray to obtain x-ray scattering patterns from the pig cornea. Specific plans: The pig cornea will be brought inside a transportation container. Adjustment will be made in the conditions in which it is hydrated and the size of the cornea. The work of transferring it to a measurement container is planned to be done in the safety

cabinet in the Genetic Modification Laboratory of the Experimental Animal Facility of the Medium-length Beamline Facility. Equipment used will be sterilized with the autoclave. The measurement container will be taken to the SPring-8 Beamline BL40B2 with the scattering measurement of the pig cornea taken with the cornea resting inside the container. After the measurement, the samples will be sterilized with the autoclave in the Genetic Modification Laboratory of the Experimental Animal Facility of the Medium-length Beamline Facility and discarded.

5 Completion of other procedures concerning importation required by laws and regulations

Not applicable

6 Others

- Document providing information on Section 2-(3), A (e)–(j), of Guidelines for Granting Permission for Importation of Pathogens [Appendix to the Notice from Director of Animal Quarantine Service 20 dated 21 February 2009 (No. 1067)] under provision of Article 36, Paragraph 1, of Act on Domestic Animal Infectious Diseases Control

- Schematic layout of storage site and map of its surroundings