EU FP VII PROJECT "VITAL"

STANDARD OPERATING PROCEDURE

SOP VITAL 008

Sampling and virus concentration from blood

CREATED:	REVISED:	APPROVED:
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— WARNING —

Adenoviruses, noroviruses, and hepatitis A and E viruses are viral pathogens. All samples and controls shall be handled by trained staff in a laboratory with appropriate equipment. Staff must be fully vaccinated against Hepatitis A and poliovirus. Persons using this SOP must be familiar with normal virology laboratory practice. This SOP does not presume to address fully all of the safety issues associated with its use. It is the responsibility of the user to establish appropriate health and safety practices and to ensure compliance with any national regulatory conditions.

AIM

To obtain 140 µl of serum to be used for viral analysis.

PRINCIPLE

At least 1 ml of blood is centrifuged at 2500 × *g* for 10 min to obtain serum, which is then stored prior to analysis for viruses.

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EQUIPMENT

- Centrifuge.
- Refrigerator.

PROCEDURE

1. Sampling:

1. Aseptically dispense at least 1 ml of blood into a sterile plastic bottle.
2. Label the plastic bottle for traceability, introducing, at least, the following details:
   Analyst
   Date of sampling
   Slaughterhouse location
   Reference number (for traceability, use the same number for the rest of the analysis process)
3. Maintain the sample at 4ºC (max. 24 h).

2. Virus Concentration

1. Aliquot 1 ml of blood into a 1.5 ml Eppendorf tube.
2. Add 10 µl of sample process control virus suspension.
3. Centrifuge at 2,500 × g for 10 min
4. Transfer the supernatant into a clean microcentrifuge tube.
5. Store at -20ºC.