MATERIAL SAFETY DATA SHEET

Norovirus LENTICULE Discs

Material Safety Data Sheet for:
Reference materials (RM) products for Norovirus (genogroups I and II) stabilised in LENTICULE disc format

Review date: 05 June 2018

Issued to: All users of CEFAS/PHE RM products for Norovirus

Access: Document to be downloaded from PHE Culture Collections website at www.phe-culturecollections.org.uk

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MATERIAL SAFETY DATA SHEET FOR FOR CEFAS/PHE NOROVIRUS GENOGROUPS I and II LENTICULE DISC PRODUCTS (REFERENCE MATERIALS)

1. Identification of the product and the establishment

Product: Reference material for use in laboratories examining food and water samples for norovirus genogroups I and II.

Establishment:
Culture Collections
Public Health England
Porton Down
Salisbury
SP4 0JG, UK

Telephone (9.00 – 17.00 hours) +44 (0) 1980 612512

Telephone (Out of working hours) +44 (0) 1980 612100

2. Composition/information on ingredients

Plastic vials containing control-dried faecal material containing viruses (norovirus GI or GII) of Hazard Group 2, in tablet format (LENTICULE disc) with a silica gel desiccant. The silica gel self-indicating (orange) desiccant inserts are not classified as dangerous material.

Hazard Group 2 as defined by the Advisory Committee on Dangerous Pathogens 2013 Approved List of Biological Agents http://www.hse.gov.uk/pubns/misc208.pdf
A Hazard Group 2 organism may cause human disease and may be a hazard to laboratory workers, but is unlikely to spread to the community.

The faecal material has been screened for other faecal pathogens and shown to be negative for: sapovirus, rotavirus, astrovirus, enteric adenovirus, *Escherichia coli*, *Salmonella* spp., *Campylobacter* spp., *Giardia* spp., *Cryptosporidium* spp. verocytotoxin 1 and 2, *Listeria* spp. and *Shigella* spp. However, routine safety precautions for the handling of samples that may be contaminated with faecal material must be applied.

Norovirus synonyms: Acute viral gastroenteritis, Norwalk-like disease, epidemic viral gastroenteritis, acute infectious nonbacterial gasteroenteritis, viral diarrhoea, epidemic diarrhoea and vomiting, winter vomiting disease, epidemic nausea and vomiting.

Norovirus identity: *Caliciviridae*; round, non-enveloped, 27-32 nm virion; single-stranded positive - sense RNA

Pathogenicity: Abrupt onset of diarrhoea, vomiting, non-bloody diarrhoea and abdominal cramps. Illness usually resolves within 24 to 48 hours. Fatality is rare; generally in the very elderly or vulnerable populations associated with electrolyte imbalance.

Epidemiology: Worldwide and common.

Host range*:* Humans.

Infectious dose: Unknown.

Mode of transmission: Faecal-oral route, ingestion of contaminated foodstuffs (e.g. bivalve shellfish), ingestion of contaminated water, aerosol and fomites.

3. Hazards identification

Physico-chemical hazard: Not applicable

Health hazard: Minimal risk of infection provided good laboratory practice is observed

Environmental hazard: Not applicable

4. First aid measures

If accidental contact with material occurs laboratory staff must follow local first aid procedures that are normally applied following exposure to a routine samples that may contain norovirus.

5. Fire fighting measures

Not applicable

6. Accidental release measures

Pick up the dropped tablet (LENTICULE disc) with absorbent material moistened with a suitable disinfectant. Wipe area with a similarly moistened pad of absorbent material and subsequently sterilise all paper and the tablet (LENTICULE disc).

7. Handling and storage

Store at -20 ± 5°C. Samples must be processed in a laboratory environment which, as defined by national regulations or guidelines, is suitable for the handling of micro-organisms of ACDP Hazard Group 2. Staff handling the material should have been trained in the handling of infectious biological material. The material should be treated with the same degree of care as would be exercised with equivalent food or water samples submitted to the laboratory for examinations for norovirus. Hand-to-mouth contact should be avoided while working with the materials and normal hand-washing procedures must be observed also with the reference materials.

8. Exposure controls/Personal protection

Use good laboratory practice and wear appropriate laboratory coat.

9. Physical and chemical properties

Inert odourless dry material.

10. Stability and reactivity

Long term storage will not increase the risks of infection associated with handling the material.

11. Toxicological information

Not applicable

12. Ecological information

Not applicable

13. Disposal considerations

The used material must be disposed of using an autoclave as for routine samples containing infectious micro-organisms and in accordance with all local and national regulations.

14. Transport information

Refer to national and international regulations for transport of viruses in Hazard Group 2 (Biological substance, category B; UN3373).

15. Regulatory information

EC Biological agent, Hazard Category/Risk Group 2

Note that this safety data sheet does not constitute the user's own assessments of workplace risk as required by Health and Safety legislation.

16. Other information

In the event of an accident involving exposure of staff to the products contact the Culture Collections (+44 (0) 1980 612512) during normal UK working hours. The PHE Porton Duty Officer (+44 (0) 1980 612100) should be contacted out of hours.

For further safety information concerning this product, participants are advised to read the instruction sheets available from the website:
www.phe-culturecollections.org.uk

Note: The information and recommendations contained in this Material Safety Data Sheet are compiled from sources understood to be reliable, however we accept no responsibility for the accuracy, or reliability, or for any loss or injury resulting from the use of this information. Equally, emerging hazards may not be covered in this document.