

Title	Describe viral impact on host cells		
Level	5	Credits	5

Purpose	People credited with this unit standard are able to describe: a virus; the lytic bacteriophage and the lysogenic bacteriophage; and the impact of a plant and an animal virus on their hosts.
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Classification	Science > Microbiology
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Available grade	Achieved
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Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Describe a virus.

Performance criteria

1.1 A virus is described in terms of its structure.

Range structure includes – shape, size, envelope, nucleic acid content.

1.2 A named enveloped virus is described and typed in terms of its structure, host range, target tissue, and the resulting disease it causes.

Outcome 2

Describe the lytic bacteriophage and the lysogenic bacteriophage.

Performance criteria

2.1 The lysogenic and lytic bacteriophages are described in terms of the differences and similarities in the viral life cycles.

Range includes but is not limited to – temperate bacteriophage.

2.2 The viral life cycles are described in terms of the differences and similarities of their effect on bacterial cells.

Outcome 3

Describe the impact of a plant and an animal virus on their hosts.

Performance criteria

3.1 The cytopathic effects of the selected virus are described in terms of the host cell's structure and biochemistry.

3.2 Specific host/virus interactions are described in terms of their impact on the host.

Range interactions include but are not limited to – lytic, latent, persistent, transforming infections; evidence of three interactions is required.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 February 1998	31 December 2014
Review	2	23 November 1999	31 December 2014
Review	3	21 May 2010	N/A
Rollover	4	27 January 2015	N/A
Review	5	27 September 2018	N/A

Consent and Moderation Requirements (CMR) reference	0113
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact NZQA National Qualifications Services nqs@nzqa.govt.nz if you wish to suggest changes to the content of this unit standard.