



Broad Spectrum Disinfectants

Suitable for immersion (dunk tanks) of surfaces and equipment at approved arrangement sites biosecurity containment levels 1-4 - classes 5, 6 and 7 (excluding class 7.10 – fertile poultry hatching eggs facilities and class 7.12 – live horses)

Types of broad spectrum chemical disinfectants	Approved active ingredients and examples of disinfectants	Facility type	Parameters for use Note: Minimum parameters must be used
Aldehydes	Glutaraldehyde > 10% e.g. Aidal Plus	Microbiological, Animal	<ul style="list-style-type: none"> • Glutaraldehyde – 2% undiluted solution • Immersion time – 30 minutes
Quaternary ammonium compounds	Benzalkonium chloride 54g/L, Polyhexamethylene Biguanide Hydrochloride 4g/L e.g. F10SC	Microbiological, Animal	<ul style="list-style-type: none"> • F10SC <ul style="list-style-type: none"> - 1:500 2ml to 998ml of water - 1:250 4ml to 996ml of water - 1:125 8ml to 992ml of water. • Immersion time <ul style="list-style-type: none"> - 10 minutes – for high level disinfection (including fungal spores) - 30 minutes – high level - for resistant viruses and spores
Quaternary ammonium compounds	Benzalkonium chloride 54g/L, Polyhexamethylene Biguanide Hydrochloride 4g/L e.g. F10SC	Plant	<ul style="list-style-type: none"> • F10SC <ul style="list-style-type: none"> - 1:125 8ml to 992ml of water - Immersion time – 30 minutes
Quaternary ammonium compounds	4-Nonylphenol, branched, ethoxylated 1-5%, Sodium carbonate 1-5%, Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride 1-3%, Alkyl Dimethyl Benzyl	Microbiological, Animal	<ul style="list-style-type: none"> • Microchem Plus <ul style="list-style-type: none"> - 5% solution 50ml to 950ml of water - Immersion time – 20 minutes

Types of broad spectrum chemical disinfectants	Approved active ingredients and examples of disinfectants	Facility type	Parameters for use Note: Minimum parameters must be used
	Ammonium Chloride 1-3% e.g. Microchem Plus		

Notes:

- The above are disinfectants for use when decontaminating equipment, spillage areas or situations as directed by the Department of Agriculture, Fisheries and Forestry.
- Contact Avian Imports for advice on disinfectants for use at class 7.10 – fertile hatching eggs facilities, at avianimports@aff.gov.au.
- Contact Horse Imports for advice on disinfectants for use at class 7.12 – live horses, at horses@aff.gov.au.
- Biosecurity industry participants should also contact their respective State/Territory governments to check what chemicals are approved in their States/Territory.
- Equipment and surfaces should be cleaned and free from organic material and grease prior to any form of disinfection or decontamination.
- The parameters are minimum concentration rates and contact times. Chemicals must be applied in accordance with the label directions.
- Disinfectants that have the same active ingredients and equal parameters will not require approval from the department.
- Requests for disinfectant approval can be forwarded to aa.canberra@aff.gov.au.
- In times of disease outbreak emergencies, consult with your regional office for alternative sources of information in relation to specific diseases.

Version control

Updates to this document will occur automatically on the department’s website and the revision table below will list the amendments as they are approved.

Date	Version	Amendments	Approved by
16 July 2024	1.0	Final version	Caroline Gibson