

Getting the correct dilution rate: a worked example

It is important to get the correct dilution rate for your disinfectant otherwise it may not work.

In this example we will demonstrate how to correctly dilute FAM-30.

1. Double check your disinfectant is approved for use against TB

The approved disinfectants list is constantly being updated so just because you were able to use a certain disinfectant in the past, doesn't mean you will necessarily be able to use it now. On the day you will perform disinfection, visit <https://disinfectants.defra.gov.uk/> (or call the manufacturer of the disinfectant) to confirm:

- your disinfectant is approved for use under Tuberculosis Orders
- the approved dilution rate of your disinfectant for TB.

Example of the checks you would perform on the Defra-approved disinfectants page on GOV.UK:

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Disinfectant name, company name and address	Chemical group	Foot and Mouth Disease Orders (FMDO)	Swine Vesicular Disease Orders (SVDO)	Diseases of Poultry Order and the Avian Influenza and Influenza of Avian Origin in Mammals Order (DoP, AI & IAOM)	Tuberculosis Orders (TBO)	General Orders (GO)
FAM Evans Vanodine International Plc Brierley Road Walton Summit Preston PR5 8AH	Iodine compound	525	60	80	Not approved	Not approved
FAM 30 Evans Vanodine International Plc Brierley Road Walton Summit Preston PR5 8AH	Iodine compound	550	100	65	14	49

2. How to correctly dilute

If your disinfectant is approved for use against TB, check its dilution rate in the table. For FAM-30 this is 1:14. This means the number of parts of water (14) to one part disinfectant. Therefore, if you used 1ml of disinfectant, you would require 14mls of water to correctly dilute it. This can easily be scaled up - if you used 150ml of disinfectant, you would require $(14 \times 150) = 2100\text{ml}$ (i.e. 2.1L) of water to correctly dilute it. Always check the label of your chosen disinfectant for detailed instructions about its use.