



# Kickstart 2

KILLS MICROBES IN SECONDS!

- ▶ the real alternative to traditional disinfectants
- ▶ very fast action
- ▶ approved for organic farming
- ▶ food contact claim in USA

## Real alternative to traditional disinfectants

Kickstart 2 is a unique formulation, based on peracetic acid, hydrogen peroxide and acetic acid. Therefore it can be used as an effective alternative instead of the regular disinfectants.



### Fast action

Very efficient for all applications which need fast action e.g. boot dip, wheel bath, cluster dipping...

### Environmentally friendly

- Kickstart 2 decomposes in 3 natural elements: H<sub>2</sub>O, CO<sub>2</sub>, O<sub>2</sub>, hence completely biodegradable.
- Approved for organic farming.

### Versatile use

- spraying: 0,5% (1:200) (allow 1L of solution per 4 m<sup>2</sup>)
- bootdips: 1-2% (renew daily)
- wheel bath: 1-2%
- fogging: 1L in 4L water for 1000m<sup>3</sup> or 1 gal + 4 gal water per 130,000 ft<sup>3</sup>
- cluster dipping: 0,1-0,25%



Bactericidal tests	Dilution	Standards
<i>Campylobacter jejuni</i>	1:400	EN 1656
<i>Clavibacter michiganensis</i>	1:200	EN 1276
<i>Clostridium perfringens</i>	1:200	EN 1276
<i>Escherichia coli</i>	1:256	AOAC, USA
<i>Escherichia coli</i>	1:2000	AFNOR T 72-300; EN 1276
<i>Enterococcus hirae</i>	1:2000	AFNOR T 72-300; EN 1276
General Orders	1:256	DEFRA, U.K.
<i>Legionella pneumophila</i>		EN 1276: 2010 0,01%
<i>Listeria monocytogenes</i>	1:512	AOAC, USA
<i>Mycoplasma gallinarum</i>	1:512	AOAC, USA
<i>Mycobacterium fortuitum (TB)</i>	1:44	DEFRA, U.K.
<i>Pectobacterium carotovorum</i>	1:200	EN 1276, E.U.
<i>Pseudomonas aeruginosa</i>	1:200	AOAC, USA
<i>Pseudomonas aeruginosa</i>	1:2000	AFNOR T 72-300; EN 1276
<i>Pseudomonas aeruginosa</i>	1:400	AOAC, USA; AFNOR T 72-190; EST method
<i>Pseudomonas syringae</i>	1:400	EN 1276:2010
<i>Salmonella choleraesuis</i>	1:256	DEFRA, U.K; AOAC, USA
<i>Salmonella choleraesuis serotype enteritidis</i>	1:400	EN 1040; EN 1276; EN 1656
<i>Salmonella choleraesuis</i>	1:400	AOAC, USA
<i>Salmonella choleraesuis serotype enteritidis</i>	1:512	AOAC, USA
<i>Salmonella choleraesuis serotype Heidelberg</i>	1:400	AOAC, USA
<i>Salmonella enterica typhimurium</i>		ATCC13311
<i>Salmonella enterica</i>		NCTC 10653 0,125%
<i>Salmonella enteritidis</i>	1:400	EN 1656
<i>Salmonella hadar</i>	1:400	EN 1656
<i>Salmonella infantis</i>	1:400	EN 1656
<i>Salmonella typhimurium</i>	1:400	EN 1656
<i>Salmonella Virchow</i>	1:400	EN 1656
<i>Staphylococcus aureus</i>	1:256	AOAC, USA
<i>Staphylococcus aureus</i>	1:2000	AFNOR T 72-300; EN 1276
<i>Staphylococcus aureus</i>	1:200	AFNOR T 72-300
<i>Streptococcus faecalis</i>	1:200	EN 1276
<i>Xanthomonas campestris</i>	1:200	EN 1276
Fungicidal tests		
<i>Absidia corymbifera</i>	1:67	AFNOR T 72-300
<i>Alternaria solani</i>	1:200	EN 1650
<i>Aspergillus fumigatus</i>	1:128	AOAC, USA
<i>Aspergillus fumigatus</i>	1:200	EN 1275, EN 1650
<i>Aspergillus niger</i>	1:50	EN 1650
<i>Aspergillus versicolor</i>	1:67	AFNOR T 72-300
<i>Botrytis cinerea</i>	1:200	EN 1650
<i>Candida albicans</i>	1:400	EN 1650
<i>Cladosporium cladosporioides</i>	1:67	AFNOR T 72-301
<i>Fusarium oxysporum</i>	1:200	EN 1650
<i>Fusarium solani</i>	1:200	EN 1650
<i>Galactomyces geotrichum</i>	1:200	EN 1650
<i>Penicillium digitatum</i>	1:200	EN 1650
<i>Penicillium italicum</i>	1:200	EN 1650
<i>Rhizoctonia solani</i>	1:200	EN 1650
<i>Saccharomyces cerevisiae</i>	1:200	EN 1275
<i>Sclerotinia sclerotiorum</i>	1:100	EN 1650
Sporicidal tests		
<i>Bacillus atrophaeus</i>		ATCC 9372 0,5%
<i>Bacillus subtilis</i>	1:200	EN 13704
<i>Clostridium perfringens</i>	1:200	EN 13704
Virucidal tests		
<i>African Swine Fever virus</i>	1:200	FSBSI FRCVM
<i>Aujeszky disease virus</i>	1:100	CTB Holland
<i>Avian Influenza</i>	1:145	DEFRA, UK
<i>Avian reovirus</i>	1:384	EPA, USA
<i>Bovine enterovirus</i>		(ECBO) ATCC VR-248
<i>Classic swinefever</i>	1:75	CTB Holland
<i>Foot and mouth disease virus</i>	1:800	DEFRA, U.K.
<i>Infectious bursal disease virus</i>	1:384	EPA, USA
<i>Infectious pancreatic necrosis (IPN)</i>	1:100	University of Bergen, Norway
<i>Marek's disease</i>	1:384	EPA, USA
<i>Newcastle disease virus</i>	1:384	EPA, USA
<i>Porcine enterovirus type 1</i>		
<i>Swine vesicular disease</i>	1:25	DEFRA, U.K.
<i>Talfar virus (Tescher Disease)</i>		
<i>Virus of infectious canine hepatitis</i>		