

## Residue trials - Lettuce - page 1

**Commodity: Lettuce**

GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
GAP	Belgium, Luxembourg, Germany, Italy, Netherlands	Foliar treatment	0.125			Not specified	3	14			<i>Bremia lettucae</i>
<b>Metalaxyl-M residue data</b>											
2261/97	France 45 (North)	Foliar treatment (WP)	0.100	400		17/18-20/47 BBCH	3	0 7 15 21	1.5 0.06 <b>0.02</b> 0.03	Head lettuce Heads Heads Heads	Method REM 181.01 LOD : 0.02 mg/kg
2260/97	France 45 (North)	Foliar treatment (WP)	0.100	400		17/45/47 BBCH	3	14	<b>0.02</b>	Head lettuce	Method REM 181.01
2252/97	Germany	Foliar treatment (WP)	0.100	600		16/19/41 BBCH	3	0 7 14 21	3.5 0.04 <b>0.03</b> <0.02	Head lettuce Heads Heads Heads	Method REM 181.01
2253/97	Germany	Foliar treatment (WP)	0.100	600		19/23/31 BBCH	3	0 7 14 21	2.6 0.04 <b>0.03</b> 0.03	Head lettuce Heads Heads Heads	Method REM 181.01
2254/97	Germany (Indoor)	Foliar treatment (WP)	0.100	600		16/19-41/41-43 BBCH	3	0 7 14 21	10 0.72 <b>0.07</b> <0.02	Head lettuce Heads Heads Heads	Method REM 181.01
2255/97	Germany (Indoor)	Foliar treatment (WP)	0.100	600		16/19-41/41-43 BBCH	3	0 6 14 21	3.6 0.56 <b>0.04</b> 0.02	Head lettuce Heads Heads Heads	Method REM 181.01
2262/97	France 34 (South)	Foliar treatment (WP)	0.100	400			3	14	<b>0.03</b>	Head lettuce	Method REM 181.01
2263/97	France 07 (South)	Foliar treatment (WP)	0.100	333		16/41/43 BBCH	3	14	<b>&lt;0.02</b>	Head lettuce	Method REM 181.01

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GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
2420/79	Canada	Foliar treatment (WP)	0.4	1000		Amost mature	4	4 7 14	0.45 <0.02 0.08	heads	Method REM 16/76, metalaxyl
AG-A 6623	USA	Foliar treatment	0.225	1400			4	7 10	0.44/0.96/ 1.0 0.78/1.2/0 .68	Mature leaves	Method AG-348, residues expressed as total metalaxyl equivalents
AG-A 6675	USA	Foliar treatment	0.225	468			4	7 11 7 11	1.1 1.4 3.1/4.1 2.2/-	Mature heads	Method AG-348, residues expressed as total metalaxyl equivalents
AG-A 6733	USA	Foliar treatment	0.225 tank mix tank mix prepak prepak tank mix prepak	140		Rem : A and B are replicates	4	7 7 7 7 14 14	A :1.8 B :2.5 A :2.1 B :1.6 A+B :1.1 A+B :0.94	Mature heads	Method AG-348, residues expressed as total metalaxyl equivalents
AG-A 6750	USA	Foliar treatment	0.225	280			6	7 10	0.34 0.20	Mature heads	Method AG-348, residues expressed as total metalaxyl equivalents
36/78	France 21 ( North )	Foliar treatment (WP)	0.240			20 leaves at last spraying	2	17	<0.04	Heads	Method REM 16/76, metalaxyl
48/78	France 45 (North)	Foliar treatment (WP)	0.240				3	19 23	0.09 0.09	Heads	Method REM 16/76, metalaxyl
49/78	France 49	Foliar treatment (WP)	0.240				3	17	0.21	Heads	Method REM 16/76, metalaxyl

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GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
	(North)							26	0.12		<i>Residue value of 0.21 mg/kg is considered as a "outlier" according to the Dixon Q-test.</i>
2044/79	Germany	Foliar treatment (WP)	0.25	600			3	0 7 10 14 21	6.5 0.48 0.17 <b>0.02</b> <0.02	Lettuce	Method REM 16/76, metalaxyl
2045/79	Germany	Foliar treatment (WP)	0.25	400			3	0 7 10 14 21	7.5 0.6 0.49 <b>0.46</b> 0.53	Lettuce	Method REM 16/76, metalaxyl  <i>Residue value of 0.46 mg/kg is considered as a "outlier" according to the Dixon Q-test.</i>
2046/79	Germany	Foliar treatment (WP)	0.25	400			3	0 7 10 14 21	2.1 0.35 0.16 <b>0.09</b> 0.06	Lettuce	Method REM 16/76, metalaxyl
2047/79	Germany (Indoor)	Foliar treatment (WP)	0.25	600			3	0 7 14 21	6.5 0.54 <b>0.32</b> 0.23	Lettuce	Method REM 16/76, metalaxyl
2001/80	Germany	Foliar treatment (WP)	0.25	600			3	0 7 10 14 21	11.0 0.18 0.14 <b>0.06</b> 0.03	Lettuce	Method REM 17/80, metalaxyl  <i>Field or glasshouse conditions not specified ??</i>

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GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
2002/80	Germany	Foliar treatment (WP)	0.25	600			3	0 7 10 14 21	4.1 0.63 0.29 <b>0.04</b> 0.02	Lettuce	Method REM 17/80, metalaxyl Field or glasshouse conditions not specified ??
2003/80	Switzerland	Foliar treatment (WP)	0.25	1000			3	0 4 7 14 21	1.3 0.14 0.06 <b>&lt;0.02</b> <b>&lt;0.02</b>	Lettuce	Method REM 16/76, metalaxyl
2244/81	Switzerland	Foliar treatment (WP)	0.25	600			3	0 3 7 10 14 20	3.4 0.71 0.13 <b>0.05</b> 0.10 0.02	Lettuce	Method REM16/76, metalaxyl  Field or glasshouse conditions not specified ??
244/77	Switzerland	Foliar treatment (WP)	0.2  0.3			Heading at last spraying  Heading at last spraying	3  3	0 3 7 10 14 21 0 3 7 10 14 21	3.2 0.31 0.08 0.09 <b>&lt;0.05</b> <b>&lt;0.05</b> 5.2 0.53 <b>&lt;0.05</b> <b>&lt;0.05</b> <b>&lt;0.05</b> <b>&lt;0.05</b>	Heads Heads Heads Heads Heads Heads Heads Heads Heads Heads Heads	Method REM 16/76, metalaxyl  Method REM 16/76, metalaxyl

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GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
2003/94	Spain	Foliar treatment (WP)	0.1-0.2		500- 1000	19-22/33/45	3	13	0.04- <b>0.05</b>	Heads of <i>cos</i> <i>lettuce</i>	Method 16/76 modified, metalaxyl
2004/94	Spain	Foliar treatment (WP)	0.16		800	36/45/47	3	14	<0.02/ <b>0.02</b>	Heads of <i>cos</i> <i>lettuce</i>	Method 16/76 modified, metalaxyl
2005/94	Spain	Foliar treatment (WP)	0.16		800	37/43/47	3	14	< <b>0.02</b>	Heads of <i>cos</i> <i>lettuce</i>	Method 16/76 modified, metalaxyl
2080/93	Spain	Foliar treatment (WP)	0.2-0.3		1000- 1500	14-13/34-33/36-35 BBCH	3	0 7 14 21	3.1 0.12 <b>0.04</b> 0.02	Leaves of <i>cos</i> <i>lettuce</i>	Method 16/76 modified, metalaxyl
2081/93	Spain	Foliar treatment (WP)	0.2		1000	13-12/32-31/33 BBCH	3	0 7 14 21	5.5 0.11 <b>0.04</b> <0.02	Leaves of <i>cos</i> <i>lettuce</i>	Method 16/76 modified, metalaxyl
2082/93	Spain	Foliar treatment (WP)	0.10- 0.14		500-685	19-20 BBCH	3	0 7 14 21	0.57 0.05 <b>0.02</b> <0.02	Leaves of <i>cos</i> <i>lettuce</i>	Method 16/76 modified, metalaxyl
2083/93	Spain	Foliar treatment (WP)	0.10		500	19/31/33 BBCH	3	0 7 14 21	1.5 0.03 <b>0.02</b> <0.02	Leaves of <i>cos</i> <i>lettuce</i>	Method 16/76 modified, metalaxyl
2084/93	Spain	Foliar treatment (WP)	0.10		500	19/31/41 BBCH	3	0 7 14	0.84 0.03 <b>0.02</b>	Leaves of <i>cos</i> <i>lettuce</i>	Method 16/76 modified, metalaxyl



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GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
								21	<0.02		
CST/635	UK (Indoor)	Sprayed to run-off (WP)			0.02% suspens.	Post-planting out	7	21 28	0.07/0.05 0.05/0.04	Lettuce	Method GC 123
CST/635	UK (Indoor)	Sprayed to run-off (WP)			0.02% suspens	Pre-planting out Post-planting out	1 7	21 28	0.07/0.08 0.09/0.06	Lettuce	Method GC 123
CST/635	UK (Indoor)	Sprayed to run-off (WP)			0.02% suspens	Pre-planting out Post-planting out	1 8	21 28	0.11/0.08 0.08/0.08	Lettuce	Method GC 123
CST/635	UK (Indoor)	Sprayed to run-off (WP)			0.02% suspens	Pre-planting out Post-planting out	2 5	21 28	0.09/0.35 0.35/0.38	Lettuce	Method GC 123
CST/635	UK (Indoor)	Sprayed to run-off (WP)			0.02% suspens	Pre-planting out Post-planting out	4 4	21 28	0.06/0.06 0.06/0.05	Lettuce	Method GC 123
CST/635	UK (Indoor)	Sprayed to run-off (WP)			0.02% suspens	Pre-planting out Post-planting out	0 6	21 28	0.09/0.09 0.09/0.07	Lettuce	Method GC 123
CST/635	UK (Indoor)	Sprayed to run-off (WP)			0.02% suspens	Pre-planting out Post-planting out	5 4	21 28	0.14/0.09 0.01/0.08	Lettuce	Method GC 123
CST/635	UK	Sprayed to run-off (WP) (Indoor)			0.02% suspens	Pre-planting out Post-planting out	3 5	21 28	0.07/0.06 0.06/0.05	Lettuce	Method GC 123

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GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
AG-A-10618, 01	USA	Soil (GR)+ foliar treatment (Pre-emergence broadcast, non incorporated + post foliar)	2.25+ 0.225+ 0.225+ 0.225+ 0.225				5	5	A :0.15 B :0.11	heads	Method AG-395 Residues expressed as total metalaxyl equivalents
AG-A-10935	USA	Soil (GR)+ foliar treatment	2.25+ 0.225+ 0.225+ 0.225+ 0.225				5	5	A :<0.05 B :0.14	heads	Method AG-395 Residues expressed as total metalaxyl equivalents
AG-A-11526	USA	Soil (GR)+ foliar treatment	2.25+ 0.225+ 0.225+ 0.225+ 0.225				5	5	A :0.14 B :0.46	heads	Method AG-395 Residues expressed as total metalaxyl equivalents
AG-A-11684	USA	Soil (GR)+ foliar treatment	2.25+ 0.225+ 0.225+ 0.225+ 0.225				5	5	A :0.49 B :0.50	heads	Method AG-395 Residues expressed as total metalaxyl equivalents
GAP	Italy	Soil application	0.1 g ai/ m <sup>2</sup>			At sowing or pre planting	2	14			Pythium spp. Phytophthora spp.
No Metalaxyl-M residue trials											
Metalaxyl residue data											
2421/79	Canada	Soil treatment (GR)	0.5			At seeding	1	68	0.02	heads	Method REM 16/76, metalaxyl
2457/79	Canada	Soil treatment (GR)	1.0			At seeding	1	68	0.08	heads	Method REM 16/76, metalaxyl
GAP	EU	Seed treatment	35 g/ 100 kg				1				Pythium spp. Phytophthora spp.

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GAP/ trial ref.	Country	Mode of treatment	Application rate			Stage of treatment/ date(s) of treatment	NE of appl	PHI (d)	Residue (mg/kg)	Portion analyzed	Pests controlled/ Method of analysis, residues analyzed
			kg ai/ha	water (l/ha)	kg ai/hl						
			<i>seed</i>								
No metalaxyl-M and no metalaxyl data											