

Agro-Levures et Dérivés

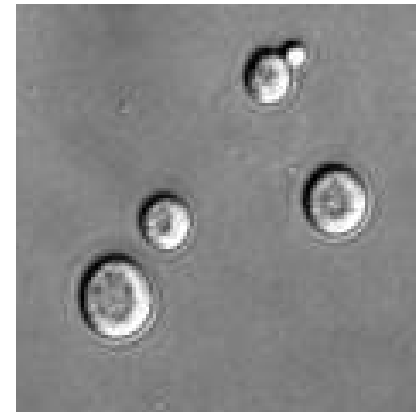
Ag'yeast and derivatives

ABIM - Lucern

October 20th 2009

Agro-Levures et Dérivés

- An independant start-up company
- Set up in March 2009
- To develop and commercialise
- Plant protection and nutrition products
- From the yeast industry



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ALD1901

- *Saccharomyces cerevisiae* yeast cell fraction
- An inert derivative, only containing :
 - carbohydrates
 - proteins
 - lipids
 - minerals
- WP
- SRI : Systemic Resistance Inducer

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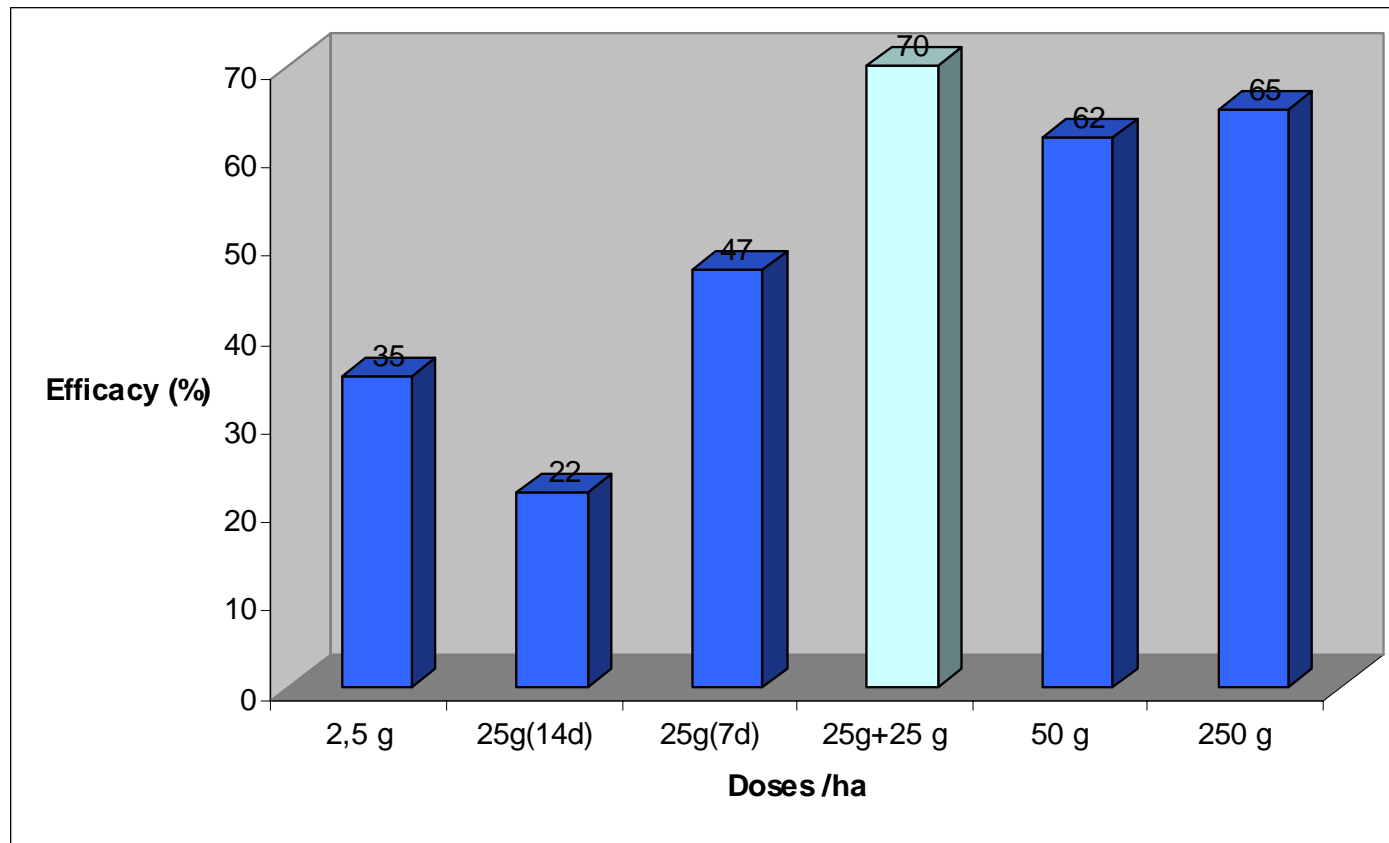
ALD1901 controlled conditions performance

- Test in greenhouse on young Cinsaut vine plants against Powdery mildew
- Range of doses : 2,5 to 250 g/ha (600l/ha)
- 7 or/and 14 days between treatment and P. mildew inoculation

| Leaves | Dose/ha | Days before inoculation | | Severity | | Eff % (Sev) |
|-----------|----------|-------------------------|----|----------|-----|-------------|
| | | | | | | |
| Untreated | 0 | | | 61,3 | a | |
| ALD1901 | 2,5 g | | -7 | 40,1 | ab | 35 |
| ALD1901 | 25g(14d) | -14 | | 48 | ab | 22 |
| ALD1901 | 25g(7d) | | -7 | 32,7 | abc | 47 |
| ALD1901 | 25g+25 g | -14 | -7 | 14,1 | c | 70 |
| ALD1901 | 50 g | | -7 | 23,3 | bc | 62 |
| ALD1901 | 250 g | | -7 | 21,3 | bc | 65 |

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ALD1901 controlled conditions performance



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ALD1901 field performance

Trial against Powdery mildew on vine

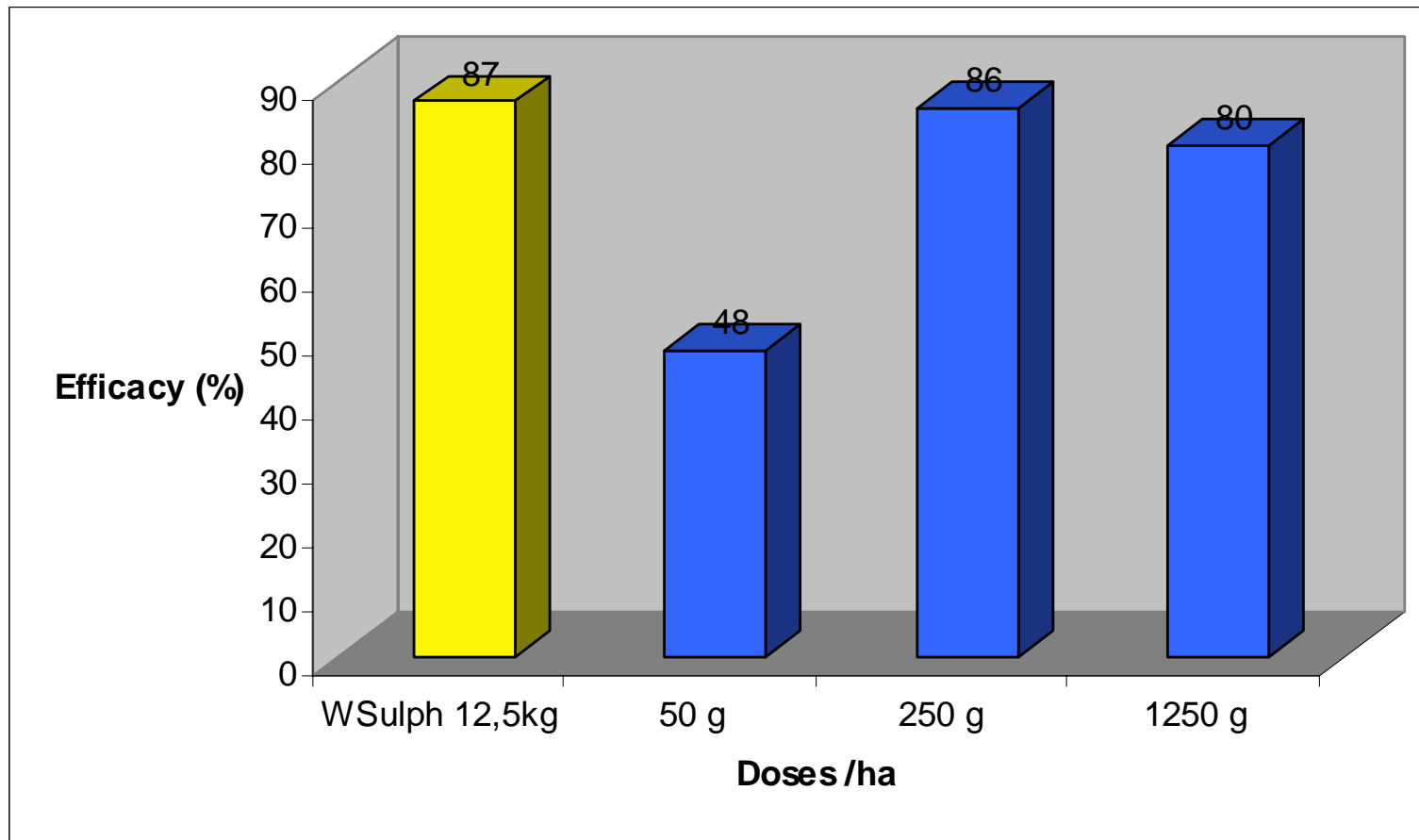
- high pressure P. mildew area in Southern France
- Sensitive variety : Carignan
- GEP compliant
- CEB protocole except 1st treatment duplicated after 5 days

| | | T2+3 (May 28) | | | | |
|------------|-------|---------------|---|----------|---|--------------|
| Leaves | kg/ha | Incidence | | Severity | | Efficacy (%) |
| Untreated | 0 | 83.0 | a | 24 | a | |
| W. Sulphur | 12,5 | 43.0 | b | 3,1 | b | 87 |
| ALD1901 | 0,05 | 82.3 | a | 12,6 | b | 48 |
| ALD1901 | 0,25 | 43.0 | b | 3,3 | b | 86 |
| ALD1901 | 1,25 | 54.5 | b | 4,7 | b | 80 |

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ALD1901 field performance

Trial against Powdery mildew on vine. Effect on **leaves** (T2+3).



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ALD1901 field performance

Same trial against Powdery mildew on vine.

Effect on bunches.

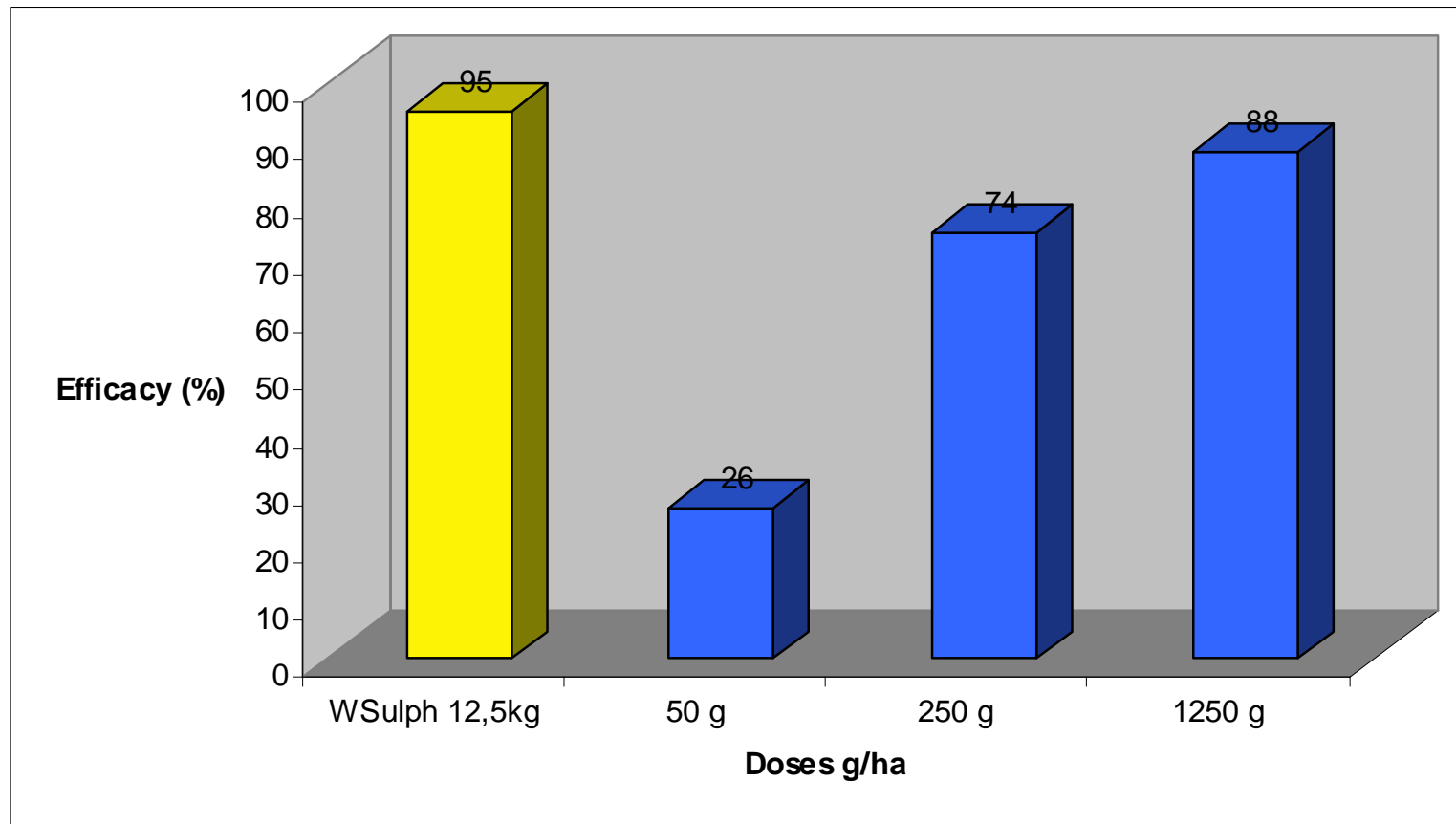
ALD1901 0,25 and 1,25 Kg/ha performs like W sulphur.

| | | T3+12 (June 6) | | | | |
|------------|-------|----------------|----|----------|----|--------------|
| Bunches | kg/ha | Incidence | | Severity | | Efficacy (%) |
| Untreated | 0 | 93.5 | a | 58,5 | a | |
| W. Sulphur | 12,5 | 21.5 | b | 2,7 | c | 95 |
| ALD1901 | 0,05 | 85.0 | a | 43,4 | ab | 26 |
| ALD1901 | 0,25 | 68.0 | ab | 15 | bc | 74 |
| ALD1901 | 1,25 | 58.5 | ab | 7,2 | bc | 88 |

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ALD1901 field performance

Trial against Powdery mildew on vine. Effect on **bunches** (T3+12)



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ALD1901 field performance

Other trial against Powdery mildew on vine.

Same conditions excepted :

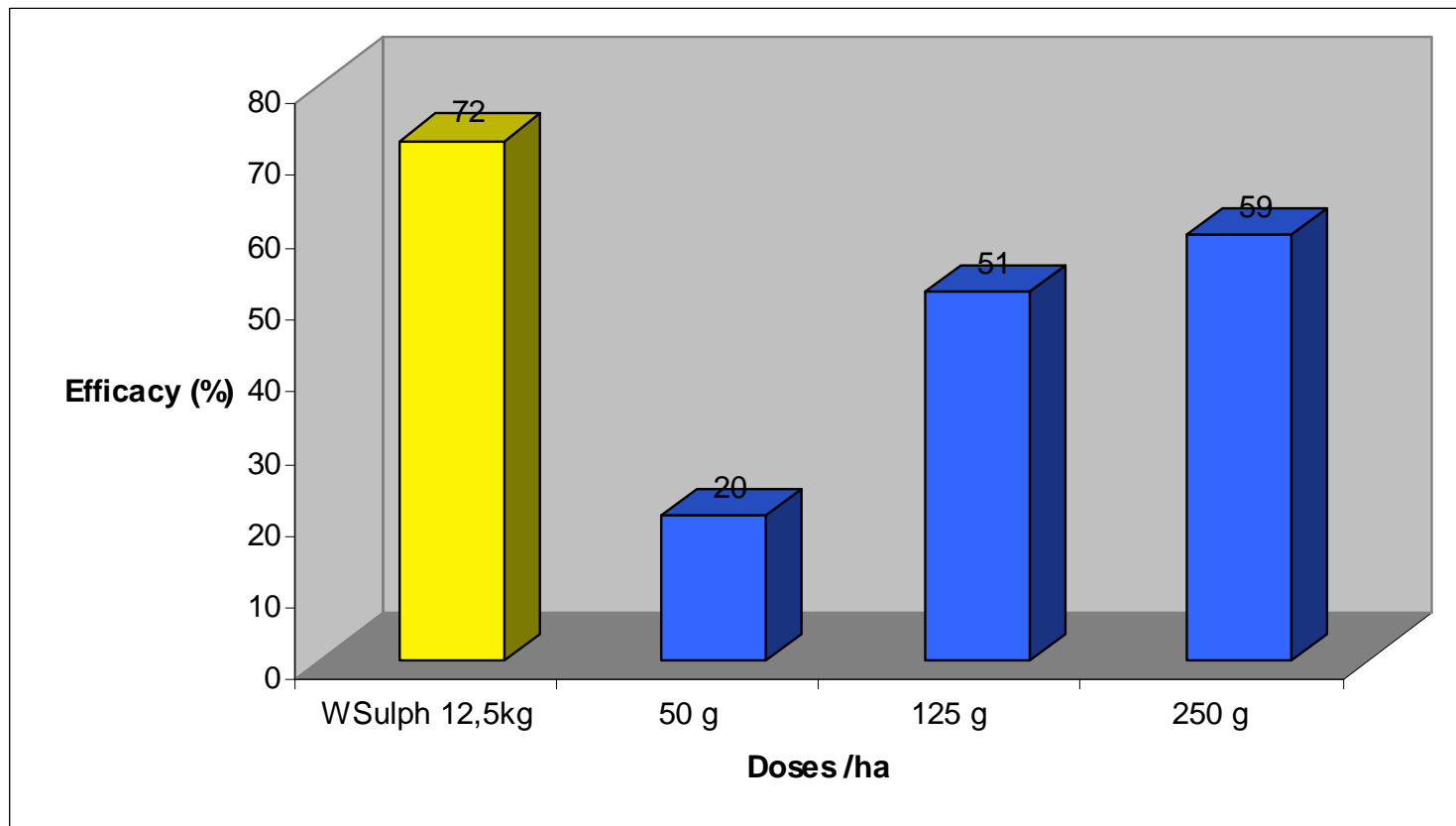
- Late infection (only on bunches)
- 7 treatments in all objects

| | | T7+28 (August 6) | | |
|------------|-------|------------------|----------|--------------|
| Bunches | kg/ha | Incidence | Severity | Efficacy (%) |
| Untreated | 0 | 100 | 47,4 | |
| W. Sulphur | 12,5 | 59.5 | 13,3 | 72 |
| ALD1901 | 0,05 | 83 | 37,7 | 20 |
| ALD1901 | 0,125 | 74.6 | 23,4 | 51 |
| ALD1901 | 0,25 | 74.5 | 19,3 | 59 |

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ALD1901 field performance

Trial against Powdery mildew on vine. Effect on **bunches** (T7+28)



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ALD1901 product profile

- As efficient at 250g/ha as a WSulphur at 12,5 Kg/ha
- On leaves and bunches
- At any stage.

- Suitable for resistance management
- Will be authorised in organic agriculture

- Top tox profile
- No chemical residue on produces and environment

Agro-Levures et Dérivés

ALD1901 project

- Patented
- Studies limited for registration (food product)
- Possible local fast tracks
- ALD1901 currently produced on an industrial base
 - No investment needed
 - No process development
 - Steady composition
 - Analytical method in routine
 - Economics under control

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THANK YOU FOR YOUR ATTENTION !

