

Growth Conditions for *R. tropici CIAT 899* and *S. meliloti 356, 370, 371*

Liquid Media

50% Tryptic Soy Broth (TSB)*

- 7.5g BD™ Tryptic Soy Broth (Soybean-Casein Digest Medium)
- add dH₂O to 500mL

Lysogeny Broth Minimum (LB_{min})

- 2.5g NaCl
- 5g Tryptone
- 2.5g Yeast Extract
- add dH₂O to 500mL

Solid Media

50% Tryptic Soy Broth (TSB)

- 7.5g BD™ Tryptic Soy Broth (Soybean-Casein Digest Medium)
- 7.5g Agar
- add dH₂O to 500mL

Lysogeny Broth (LB)

- 5g NaCl
- 5g Tryptone
- 2.5g Yeast Extract
- 7.5g Agar
- add dH₂O to 500mL

Incubate at 30°C.

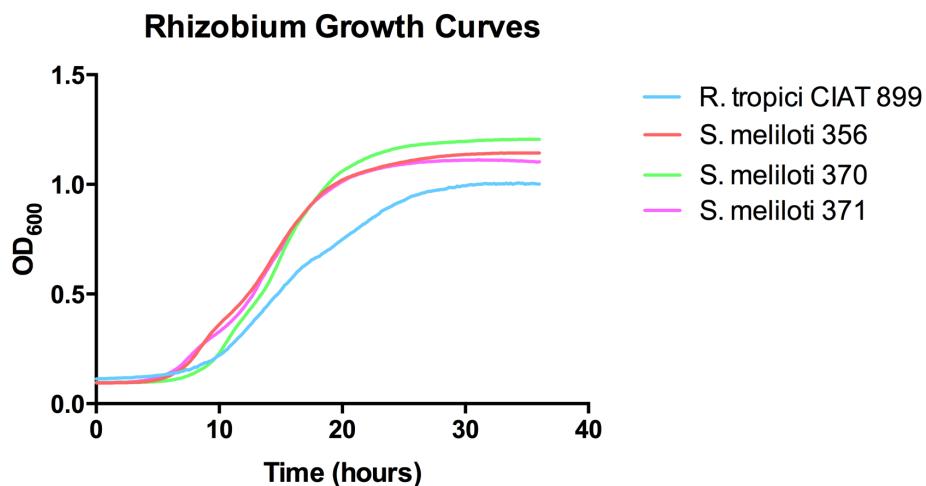
Additional Strain Information

Strains	Characteristics
<i>Rhizobium tropici CIAT 899</i>	can tolerate high temperatures and high levels of acidity in culture, wide range of legume symbionts
<i>Sinorhizobium meliloti 357</i>	derivatives of <i>S. meliloti 1021</i>
<i>Sinorhizobium meliloti 370</i>	derivatives of <i>S. meliloti 1021</i>
<i>Sinorhizobium meliloti 371</i>	derivatives of <i>S. meliloti 1021</i>

Doubling times for rhizobia strains.

Strain	Doubling Time
<i>R. tropici CIAT 899</i>	2.5 hours

<i>S. meliloti</i> 356	1.5 hours
<i>S. meliloti</i> 370	1.5 hours
<i>S. meliloti</i> 371	1.5 hours



Optical density at 600nm (OD₆₀₀) of each Rhizobium strain, measured every 10 minutes for 36 hours.

Innate resistances to commonly used lab antibiotics on solid and liquid media.

Antibiotic	<i>R. tropici CIAT 899</i>		<i>S. meliloti</i> 356		<i>S. meliloti</i> 370		<i>S. meliloti</i> 371	
Culture	Solid	Liquid	Solid	Liquid	Solid	Liquid	Solid	Liquid
Streptomycin	NO	NO	NO	YES	NO	YES	NO	YES
Carbenicillin	YES	NO	NO	NO	NO	NO	NO	YES
Kanamycin	NO	NO	NO	NO	NO	NO	NO	NO
Rifampicin	NO	NO	NO	NO	NO	NO	NO	NO
Spectomycin	YES	YES	NO	NO	NO	NO	YES	YES