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$$\begin{aligned} \frac{dS}{dt} &= -b * In * S / (S + L + In + R + Q) - u(t) * S / (S + L + In + R + Q), \\ \frac{dL}{dt} &= b * In * S / (S + L + In + R + Q) - a * L, \\ \frac{dIn}{dt} &= a * L - g * In + s * Q, \\ \frac{dR}{dt} &= u(t) * S / (S + L + In + R + Q) + e * g * In, \\ \frac{dQ}{dt} &= (1 - e) * g * In - s * Q, \\ y1 &= a * L + s * Q \end{aligned}$$

Running SIAN:

-----  
=> Step 0. Extracting states, inputs, outputs, and parameters from the system  
=> Step 1. Constructing the maximal polynomial system  
=> Step 2. Truncating the polynomial system based on the Jacobian condition  
=> Step 3. Assessing local identifiability  
=> Step 4. Randomizing the truncated system  
=> Step 5. Assessing global identifiability



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▼ **Outputs:**

Globally Identifiable Parameters

*Running*

**Identifiability of Individual Parameters:**

Locally Identifiable Paramters

$[a, b, e, g, s, S(0), L(0), In(0), R(0), Q(0)]$

Not Identifiable Parameters

[]

**Identifiable Combinations:**

Bound on the number of experiments:

[]

Multi-Experient identifiable functions are generated by:

[]

Single-Experiment identifiable functions are generated by:

[]

CPU runtime of SIAN (sec)

CPU runtime of Multi-Experiment Identifiability (sec)

CPU runtime of Single-Experiment Identifiability (sec)

▼ Execution Log:

SIAN log:

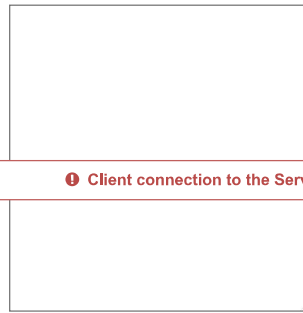
```
Using text-based input format:

[diff(S(t),t) = -
b*In(t)*S(t)/(S(t)+L(t)+In(t)+R(t)+Q(t)
))-
u(t)*S(t)/(S(t)+L(t)+In(t)+R(t)+Q(t)),
diff(L(t),t) =
b*In(t)*S(t)/(S(t)+L(t)+In(t)+R(t)+Q(t)
))-a*L(t), diff(In(t),t) = -
g*In(t)+a*L(t)+s*Q(t), diff(R(t),t) =
u(t)*S(t)/(S(t)+L(t)+In(t)+R(t)+Q(t))-
e*g*In(t), diff(Q(t),t) = (1-
e)*g*In(t)-s*Q(t), y1(t) =
a*L(t)+s*Q(t)]

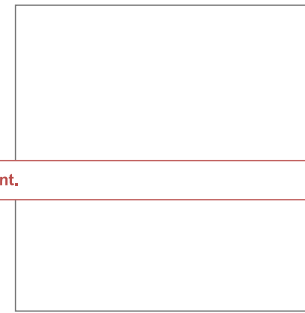
=====
=====

0. Extracting states, inputs, outputs,
```

Multi-Experiment Identifiability Log



Single-Experiment Identifiability Log



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