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```
dS/dt = -b * In * S/ (S + L + In + R + Q) - u(t) * S / (S + L + In
+ R + Q),
dL/dt = b * In * S/ (S + L + In + R + Q) - a * L,
dIn/dt = a * L - g * In + s * Q,
dR/dt = u(t) * S / (S + L + In + R + Q) + e * g * In,
dQ/dt = (1 - e) * g * In - s * Q,
y1 = In / (S + L + In + R + Q)
```

Determine | Clear Log | Save Output

```
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:

Identifiability of Inidividual Parameters:

Globally Identifiable Parameters	Locally Identifiable Paramters	Not Identifiable Parameters
Running	$[a, b, e, g, s, S(0), L(0), In(0), R(0), Q(0)]$	[]

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) =
In(t)/(S(t)+L(t)+In(t)+R(t)+Q(t))]


====================================
=================

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

Multi-Experiment Identifiability Log

Single-Experiment Identifiability Log

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