1 Full report

1.1 Input data

Input file name:

`UPO.txt`

File contents:

```
#mathmatical symbols used in rate constant names (e.g. k-1) must be escaped with a prece

E, k1; [A], EA/EP
EA/EP, k_-1, E
EA/EP, k2, E*
E*, k_-2, EA/EP
E*, k3; [B], E*B/EQ
E*B/EQ, k_-3, E*
E*B/EQ, k6, E
E, k_-6; [Q], E*B/EQ
E*, k4; [A], E*A/EPR
E*A/EPR, k_-4, E*
E*A/EPR, k7, E
E, k_-7; [P], E*A/EPR
E, k8; [B], EB
EB, k_-8, E

=+: E*B/EQ, k6,
=-: E, k_-6; [Q],

=0: k_-6, k_-7, [P], [Q], k_-2

subsymbols: k_ib, k_ma, k_ma2, k_mb
subs:k8, k_-8/k_ib
subs:k1, (k_-1 + k2)/k_ma
subs:k4, (k_-4+k7)/k_ma2
subs:k3, (k_-3+k6)/k_mb
```

1.2 Parsed_reactions

Reactions after parsing

$$
\begin{array}{lcr}
E & \xrightarrow{k_1[A]} & EA/EP \\
EA/EP & \xrightarrow{k_{-1}} & E \\
EA/EP & \xrightarrow{k_2} & E* \\
E* & \xrightarrow{k_{-2}} & EA/EP \\
E* & \xrightarrow{k_3[B]} & E*B/EQ \\
E*B/EQ & \xrightarrow{k_{-3}} & E* \\
E*B/EQ & \xrightarrow{k_6} & E \\
E & \xrightarrow{k_{-6}[Q]} & E*B/EQ \\
E* & \xrightarrow{k_4[A]} & E*A/EPR \\
E*A/EPR & \xrightarrow{k_{-4}} & E* \\
E*A/EPR & \xrightarrow{k_7} & E \\
E & \xrightarrow{k_{-7}[P]} & E*A/EPR \\
E & \xrightarrow{k_8[B]} & EB \\
EB & \xrightarrow{k_{-8}} & E
\end{array}
$$