**Formatting of the output data.**

**Look@Rates** exports calculated rates as a new sheet (called “rates”) in the input Excel spreadsheet (xlsx). The output values are organized in columns, with rows corresponding to individual cells. Table below describes the output data. The description assumes carbon to be the assimilated element. For other elements, replace C with that element (e.g., N). Approaches, equations, and supplementary method sections referred to in the table are described in Polerecky et al. (submitted to Frontiers in Microbiology).

|  |  |
| --- | --- |
| **Column** | **Description** |
| ***k, dk*** | Best estimate (*k*) and uncertainty (Δ*k*) of the carbon**-**specific C assimilation rate. |
| ***r\_A, dr\_A, CV\_A*** | Best estimate (*r*), uncertainty (Δ*r*), and relative error (coefficient of variation, Δ*r/r*) of the cell-specific C assimilation rate, calculated by Approach A (Eq. **21**). |
| ***r\_B, dr\_B, CV\_B*** | Best estimate (*r*), uncertainty (Δ*r*), and relative error (coefficient of variation, Δ*r/r*) of the cell-specific C assimilation rate, calculated by Approach B (Eq. **22**). |
| ***r\_C, dr\_C, CV\_C*** | Best estimate (*r*), uncertainty (Δ*r*), and relative error (coefficient of variation, Δ*r/r*) of the cell-specific C assimilation rate, calculated by Approach C (Eq. **23**). |
| ***r\_nondiv, dr\_nondiv, CV\_nondiv*** | Best estimate (*r*), uncertainty (Δ*r*), and relative error (coefficient of variation, Δ*r/r*) of the cell-specific C assimilation rate, calculated by Eq. **24**, which does not account for cell division. |
| ***Ndiv0*** | Number of divisions of the measured cell during incubation. Predicted assuming zero-order kinetics of C assimilation. |
| ***Ndiv1*** | Number of divisions of the measured cell during incubation. Predicted assuming first-order kinetics of C assimilation. |
| ***ratio*** | Ratio between the cell-specific C assimilation rate estimated by Approach C and by Eq. **24**. |