

## Recombinant Fire fly Luciferase

**Cat. No.** Luciferase-08F    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b>    | Recombinant Fire fly luciferase produced in <i>E. coli</i> has a molecular mass of approximately 62 KDa.                                                                                                                                                                                                                                                |
| <b>Species</b>             | Firefly                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | <i>E.coli</i>                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>         | Luciferases are enzymes that emit light. A diverse group of organisms use luciferase-mediated bioluminescence to startle predators or to attract prey or mates. The luciferase from the North American fire fly releases green light during the oxidation of its chemical substrate, luciferin. Recombinant luciferase is expressed in <i>E. coli</i> . |
| <b>Purity</b>              | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                         |
| <b>Specific Activity</b>   | more than $2.0 \times 10^{11}$ RLU/mg.                                                                                                                                                                                                                                                                                                                  |
| <b>Physical Appearance</b> | Lyophilized powder                                                                                                                                                                                                                                                                                                                                      |
| <b>Optimum PH</b>          | 7.0—8.5                                                                                                                                                                                                                                                                                                                                                 |
| <b>PH Stability</b>        | 6.0—9.0                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>             | This lyophilized preparation should be kept at $-20^{\circ}\text{C}$ for six months, and kept at $-70^{\circ}\text{C}$ for one year.                                                                                                                                                                                                                    |

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