Blosum50 only of the pairs used in the alignment that is printed below.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | \* | H | E | A | G | A | W | G | H | E | E |
| 2 | P | -2 | -1 | -1 | -2 | -1 | -4 | -2 | -2 | -1 | -1 |
| 3 | A | -2 | -1 | 5 | 0 | 5 | -3 | 0 | -2 | -1 | -1 |
| 4 | W | -3 | -3 | -3 | -3 | -3 | 15 | -3 | -3 | -3 | -3 |
| 5 | H | 10 | 0 | -2 | -2 | -2 | -3 | -2 | 10 | 0 | 0 |
| 6 | E | 0 | 6 | -1 | -3 | -1 | -3 | -3 | 0 | 6 | 6 |
| 7 | A | -2 | -1 | 5 | 0 | 5 | -3 | 0 | -2 | -1 | -1 |
| 8 | E | 0 | 6 | -1 | -3 | -1 | -3 | -3 | 0 | 6 | 6 |

Fill in the scoring matrix according to your algorithm and Blosum50 (see above)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  | \* | \* | H | E | A | G | A | W | G | H | E | E |
| 0 | \* |  |  |  |  |  |  |  |  |  |  |  |
| 1 | P |  |  |  |  |  |  |  |  |  |  |  |
| 2 | A |  |  |  |  |  |  |  |  |  |  |  |
| 3 | W |  |  |  |  |  |  |  |  |  |  |  |
| 4 | H |  |  |  |  |  |  |  |  |  |  |  |
| 5 | E |  |  |  |  |  |  |  |  |  |  |  |
| 6 | A |  |  |  |  |  |  |  |  |  |  |  |
| 7 | E |  |  |  |  |  |  |  |  |  |  |  |