

**Table S2.** Taguchi design. Mixed level design. L18 (6<sup>1</sup> 3<sup>3</sup>).

<b>Trial number*</b>	<b>pH</b>	<b>Temperature (°C)</b>	<b>Time (h)</b>	<b>Silkworm pupae (%<sup>w/v</sup>)</b>	<b>Proteolytic activity (U/mL)</b>
<b>1</b>	6	20	24	0.1	874.07 ± 6.42
<b>2</b>	7	25	36	0.1	2000.00 ± 245.70
<b>3</b>	8	30	48	0.1	644.44 ± 105.99
<b>4</b>	6	25	24	0.5	2474.07 ± 99.59
<b>5</b>	7	30	36	0.5	3474.07 ± 138.93
<b>6</b>	8	20	48	0.5	3477.78 ± 101.84
<b>7</b>	6	20	36	1.0	3059.26 ± 222.59
<b>8</b>	7	25	48	1.0	3792.59 ± 228.88
<b>9</b>	8	30	24	1.0	2700.00 ± 50.92
<b>10</b>	6	30	48	1.5	3222.22 ± 189.98
<b>11</b>	7	20	24	1.5	3425.93 ± 209.74
<b>12</b>	8	25	36	1.5	4900.00 ± 196.58
<b>13</b>	6	30	36	2.0	3318.52 ± 241.48
<b>14</b>	7	20	48	2.0	4088.89 ± 534.26
<b>15</b>	8	25	24	2.0	3874.07 ± 324.39
<b>16</b>	6	25	48	2.5	5027.78 ± 296.66
<b>17</b>	7	30	24	2.5	2292.59 ± 128.78
<b>18</b>	8	20	36	2.5	4262.96 ± 262.55

\*The experiment runs were carried out in a random order.