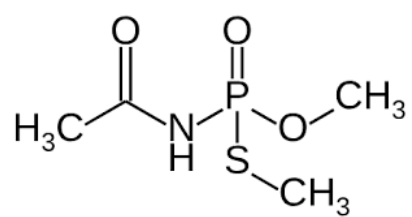


**Figure S1:** Chemical structure of Hexadecasphinganine



**Figure S2:** Chemical structure of acephate

Table S1. Compounds identified in *E. alata* seeds extract

No	Compounds *	Relative % **
1	Unknown	<b>6,48±0,13</b>
2	Methanoprolin	1,25±0,09
3	Leucine/Isoleucine hexoside	1,04±0,05
4	Phenylalanine hexoside	1,09±0,16
5	Ephedrine derivative 1 (+ hexosyl + deoxyhexosyl)	2,16±0,08
6	Indoleacrylic acid	1,77±0,19
7	Hydroxykynurenin acid	2,09±0,38
8	Unknown	1,19±0,05
9	Kynurenin acid	1,45±0,11
10	Ephedrine derivative 2	0,33±0,00
11	Unknown	0,29±0,04
12	Ephedrine derivative 3	1,49±0,07
13	Isoschaftoside	0,43±0,01
14	Ephedrine derivative 4	2,84±0,16
15	Unknown	0,48±0,08
16	Unknown	0,92±0,11
17	Isorhamnetin <i>O</i> -hexoside- <i>O</i> -deoxyhexoside 1	0,19±0,02
18	Isorhamnetin <i>O</i> -hexoside- <i>O</i> -deoxyhexoside 2	0,23±0,02
19	Unknown (compound 18 + C <sub>6</sub> H <sub>11</sub> NO)	2,89±0,38
20	Kaempferol 3- <i>O</i> -rhamnoside	0,09±0,02
21	Unknown (compound 19 + C <sub>6</sub> H <sub>11</sub> NO)	1,38±0,20
22	Unknown (compound 20 + C <sub>6</sub> H <sub>11</sub> NO)	0,27±0,03
23	Unknown (compound 21+C <sub>6</sub> H <sub>11</sub> NO)	0,03±0,00
24	Tetradecasphinganine	0,41±0,01
25	<b>Hexadecasphinganine</b>	<b>30,59±0,19</b>
26	Phytosphingosine	3,52±0,20
27	Sphingolipid derivative 1	4,36±0,63
28	Sphingolipid derivative 2	0,42±0,01
29	Unknown	0,44±0,03
30	Sphingolipid derivative 3	1,17±0,17

<b>31</b>	Unknown	3,10±0,14
<b>32</b>	9,10-Dihydroxystearic acid	0,72±0,07
<b>33</b>	Deoxysphinganine	0,46±0,04
<b>34</b>	Hydroxyhexadecanoic acid	0,34±0,02
<b>35</b>	Hydroxyoctadecatrienoic acid	0,54±0,01
<b>36</b>	Unknown (choline derivative)	3,64±0,07
<b>37</b>	Unknown	3,31±0,05
<b>38</b>	Unknown	<b>7,66±0,59</b>
<b>39</b>	Oleamide	<b>5,77±0,98</b>
<b>40</b>	N-Palmitoylsphingosine	0,33±0,00
<b>41</b>	Unknown	<b>2,84±0,16</b>

\* [54]

\*\* Results of the present study