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**ANNEX**

In Table 2 (Specifications) of the Annex to Implementing Regulation (EU) 2017/2470, the entry for ‘Astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae’ is replaced by the following:

<b>Authorised Novel Food</b>	<b>Specification</b>
Astaxanthin-rich oleoresin from <i>Haematococcus pluvialis</i> algae	<p data-bbox="577 619 725 646"><b>Description</b></p> <p data-bbox="577 662 2056 847">Astaxanthin is a carotenoid produced by <i>Haematococcus pluvialis</i> algae. Production methods for the growth of the algae are variable; using ‘closed’ systems exposed to sunlight or strictly controlled illuminated light alternatively open ponds may be used. The algal cells are harvested and dried; the oleoresin is extracted using either super critical CO<sub>2</sub> or a solvent (ethyl acetate). The Astaxanthin is diluted and standardized to 2,5 %, 5,0 %, 7,0 %, 10 %, 15 % or 20 % using olive oil, safflower oil, Sunflower oil or MCT (Medium Chain Triglycerides).</p> <p data-bbox="577 914 938 941"><b>Characteristics/Composition</b></p> <p data-bbox="577 957 763 984">Fat: 42,2- 99 %</p> <p data-bbox="577 1000 763 1027">Protein: ≤4,4 %</p> <p data-bbox="577 1043 853 1070">Carbohydrate: ≤52,8 %</p> <p data-bbox="577 1086 748 1114">Fibre: &lt; 1,0 %</p> <p data-bbox="577 1129 725 1157">Ash: ≤4,2 %</p> <p data-bbox="577 1173 999 1200">Specification of Carotenoids w/w%</p> <p data-bbox="577 1216 949 1243">Total Astaxanthins: 2,9-11,1 %</p> <p data-bbox="613 1259 965 1286">9-cis-astaxanthin: 0,3-30,0 %</p> <p data-bbox="613 1302 965 1329">13-cis-astaxanthin: 0,2-7,0 %</p> <p data-bbox="613 1345 1061 1372">Astaxanthin monoesters: 66.7-91,5 %</p>

	<p>Astaxanthin diesters: 0,16-32,5 %</p> <p>Beta-Carotene: 0,01-0,3 %</p> <p>Lutein: ≤1,8 %</p> <p>Canthaxanthin: ≤1,30 %</p> <p><b>Microbiological criteria:</b></p> <p>Total aerobic bacteria: &lt; 3 000 CFU/g</p> <p>Yeast and Moulds: &lt; 100 CFU/g</p> <p>Coliforms: &lt; 10 CFU/g</p> <p>E. coli: Negative</p> <p>Salmonella: Negative</p> <p>Staphylococcus: Negative</p>
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