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## SCHEDULE 2

Regulation 3(6)

Insertion of entry in the Annex to Commission Regulation (EU) 231/2012 for E 960c(ii) for Rebaudioside M, AM and D Produced via Enzymatic Conversion of Highly Purified Steviol Glycosides from Stevia Leaf Extracts

## "E 960c(ii) REBAUDIOSIDE M, AM AND D PRODUCED VIA ENZYMATIC CONVERSION OF HIGHLY PURIFIED STEVIOL GLYCOSIDES FROM STEVIA LEAF EXTRACTS

Molecular formula	β-D-glucopyranosyl-β- Rebaudioside AM: 13- glucopyranosyl)oxy]ka		6-en-18-oic acid, 2- <i>O</i> - /l-β-D- 2-β-D-	
Molecular formula	<ul> <li>β-D-glucopyranosyl-β-</li> <li>Rebaudioside AM: 13- glucopyranosyl)oxy]ka glucopyranosyl-3-<i>O</i>-β-</li> <li>Trivial name</li> <li>Rebaudioside M</li> </ul>	D-glucopyranosyl ester [(2- <i>O</i> -β-D-glucopyranosy ur-16-en-18-oic acid, 2- <i>C</i> D-glucopyranosyl-β-D-g <b>Formula</b> C <sub>56</sub> H <sub>90</sub> O <sub>33</sub>	6-en-18-oic acid, 2- <i>O</i> - /l-β-D- /β-D- lucopyranosyl ester <b>Conversion factor</b> 0.25	
Molecular formula	<ul> <li>β-D-glucopyranosyl-β-</li> <li>Rebaudioside AM: 13- glucopyranosyl)oxy]ka glucopyranosyl-3-O-β-</li> <li>Trivial name</li> </ul>	D-glucopyranosyl ester [(2- <i>O</i> -β-D-glucopyranosy ur-16-en-18-oic acid, 2- <i>C</i> D-glucopyranosyl-β-D-g <b>Formula</b>	6-en-18-oic acid, 2- <i>O</i> - /l-β-D- 2-β-D- lucopyranosyl ester <b>Conversion factor</b>	
Molecular formula	<ul> <li>β-D-glucopyranosyl-β-</li> <li>Rebaudioside AM: 13- glucopyranosyl)oxy]ka glucopyranosyl-3-O-β-</li> <li>Trivial name</li> </ul>	D-glucopyranosyl ester [(2- <i>O</i> -β-D-glucopyranosy ur-16-en-18-oic acid, 2- <i>C</i> D-glucopyranosyl-β-D-g <b>Formula</b>	6-en-18-oic acid, 2- <i>O</i> - /l-β-D- 2-β-D- lucopyranosyl ester <b>Conversion factor</b>	
	β-D-glucopyranosyl-β- Rebaudioside AM: 13- glucopyranosyl)oxy]ka	D-glucopyranosyl ester [(2- <i>O</i> -β-D-glucopyranosy ur-16-en-18-oic acid, 2- <i>C</i>	6-en-18-oic acid, 2- <i>O</i> - /l-β-D- 2-β-D-	
	β-D-glucopyranosyl-3- <i>O</i> -β-D-glucopyranosyl-β-D-glucopyranosyl ester Rebaudioside D: 13-[(2- <i>O</i> -β-D-glucopyranosyl-3- <i>O</i> -β-D-glucopyranosyl-β-D-glucopyranosyl)oxy]kaur-16-en-18-oic acid, 2- <i>O</i> -β-D-glucopyranosyl-β-D-glucopyranosyl ester			
Chemical name	Viable cells or DNA of <i>Escherichia coli</i> (pPM294, pFAH170, and pSK041) must not be detected in the food additive. Rebaudioside M: 13-[(2- <i>O</i> -β-D-glucopyranosyl-3- <i>O</i> -β-D-glucopyranosyl-β-D-glucopyranosyl)oxy]kaur-16-en-18-oic acid, 2- <i>O</i> -			
Definition	Steviol glycosides produced via enzymatic conversion of highly purified steviol glycosides (rebaudioside A or stevioside) stevia leaf extracts are composed predominantly of rebaudioside M, rebaudioside D, and rebaudioside AM. Rebaudiosides D, M and AM are produced via enzymatic conversion of highly purified steviol glycoside (rebaudioside A or stevioside) extracts (95% steviol glycosides) obtained from <i>Stevia rebaudiana</i> Bertoni plant using UDP-glucosyltransferase and sucrose synthase enzymes produced by genetically modified strains of <i>Escherichia coli</i> (pPM294, pFAH170, and pSK041) that facilitate the transfer of glucose from sucrose and UDP-glucose to steviol glycosides via glycosidic bonds. After removal of the enzymes by solid-liquid separation and heat treatment, the purification involves concentration of the steviol glycosides by resin adsorption, followed by recrystallisation of the steviol glycosides resulting in a final product containing not less than 95% of total steviol glycosides, including one or more of rebaudiosides D, M and AM.			

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	Rebaudioside M	1220616-44-3	1291.29	
	Rebaudioside D	63279-13-0	1129.15	
	Rebaudioside AM	2222580-26-7	1129.15	
Assay	Not less than 95 % of steviol glycosides on the dried basis, including one or more of rebaudiosides D, M and AM.			
Description	White to light yellow powder, approximately between 200 and 350 times sweeter than sucrose (at 5 % sucrose equivalency).			
Identification				
Solubility	Freely soluble to slightly soluble in water.			
рН	Between 4.5 and 7.0 (1 in 100 solution)			
Purity				
Total ash	Not more than 1 %			
Loss on drying	Not more than 6 % (105 °C, 2h)			
<b>Residual solvent</b>	Not more than 5000 mg/kg ethanol			
Arsenic	Not more than 0.015 mg/kg			
Lead	Not more than 0.2 mg/kg			
Cadmium	Not more than 0.015 mg/kg			
Mercury	Not more than 0.07 mg/kg			
Residual protein	Not more than 5 mg/kg"			