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SCHEDULE 2

Regulation 4

Amendments to the Annex to Commission Regulation (EU) No. 231/2012 concerning the specification of steviol glycosides (E 960a) (formerly E 960) and for the addition of a specification for rebaudioside M produced via enzyme modification of steviol glycosides from Stevia (E 960c)

1. In the entry for steviol glycosides, for the heading "E 960 STEVIOL GLYCOSIDES" substitute—

"E 960a STEVIOL GLYCOSIDES FROM STEVIA".

2. In the appropriate place, insert the following entry—

"E 960c REBAUDIOSIDE M PRODUCED VIA ENZYME MODIFICATION OF STEVIOL GLYCOSIDES FROM STEVIA

| Synonyms | | | | |
|--------------------------------|--|---|---------------------------|--|
| Definition | Rebaudioside M is a steviol glycoside composed predominantly of rebaudioside M with minor amounts of other steviol glycosides such as rebaudioside A, rebaudioside B, rebaudioside D, rebaudioside I, and stevioside. | | | |
| | Rebaudioside M is obtained via enzymatic bioconversion of purified steviol glycoside leaf extracts (95% steviol glycosides) of the <i>Stevia</i> <i>rebaudiana</i> Bertoni plant using UDP-glucosyltransferase and sucrose synthase enzymes produced by the genetically modified yeasts <i>K</i> . <i>phaffi</i> (formerly known as <i>Pichia pastoris</i>) UGT-a and <i>K. phaffi</i> UGT- b 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 rebaudioside M by resin adsorption, followed by recrystallisation of rebaudioside M resulting in a final product containing not less than 95 % of | | | |
| | rebaudioside M. Viable cells or the DNA of the yeasts K. <i>phaffii</i> UGT-a or K. <i>phaffii</i> UGT-b must not be detected in the food additive. | | | |
| Chemical name | RebaudiosideM:13-[(2-O- β -D-glucopyranosyl-3-O- β -D-glucopyranosyl- β -D-glucopyranosyl)oxy]kaur-16-en-18-oic acid, 2-O- β -D-glucopyranosyl-3-O- β -D-glucopyranosyl- β -D-glucopyranosyl ester | | | |
| Molecular formula | Trivial name | Formula | Conversion factor | |
| | Rebaudioside M | C ₅₆ H ₉₀ O ₃₃ | 0.25 | |
| Molecular weight and CAS No | Trivial name | CAS Number | Molecular weight (g/ mol) | |
| | Rebaudioside M | 1220616-44-3 | 1291.29 | |
| Assay | Not less than 95% rebaudioside M on the dried basis | | | |
| Description | White to light yellow powder, approximately between 200 and 350 times sweeter than sucrose (at 5% sucrose equivalency) | | | |
| Identification | 1 | | | |

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| Synonyms | | | |
|------------------|---|--|--|
| 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) | | |
| Residual solvent | Not more than 5,000 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 | | |
| Particle size | Not less than 74 μ m (using a mesh #200 sieve with a particle size limit of 74 μ m)". | | |