

ATODLEN 2

Rheoliad 3

Diwygiadau i'r Atodiad i Reoliad (EU) Rhif 231/2012 sy'n ymwneud â'r fanyleb ar gyfer E 960a glycosidau steviol o Stevia (E 960 glycosidau steviol yn flaenorol) ac i ychwanegu manyleb ar gyfer E 960c rebaudiosid M a gynhyrchir drwy addasu glycosidau steviol o Stevia ag ensymau

1. Yn Rheoliad y Comisiwn (EU) Rhif 231/2012, mae'r Atodiad (manylebau ar gyfer ychwanegion bwyd gan gynnwys lliwiau a melysyddion a restrir yn Atodiadau 2 a 3 i Reoliad (EC) Rhif 1333/2008) wedi ei ddiwygio fel a ganlyn.

2. Yn lle pennawd y cofnod ar gyfer "E 960 STEVIOL GLYCOSIDES" rhodder—

"E 960a STEVIOL GLYCOSIDES FROM STEVIA"

3. Yn y lle priodol, mewnosoder y cofnod a ganlyn—

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

Synonyms			
Definition	<p>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.</p> <p>Rebaudioside M is obtained via enzymatic bioconversion of purified steviol glycoside leaf extracts (95% steviol glycosides) of the <i>Stevia rebaudiana</i> Bertoni plant using UDP-glucosyltransferase and sucrose synthase enzymes produced by the genetically modified yeasts <i>K. 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.</p> <p>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 <i>K. phaffi</i> UGT-a or <i>K. phaffi</i> UGT-b must not be detected in the food additive.</p>		
Chemical name	Rebaudioside M: 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	<i>Trivial name</i>	<i>Formula</i>	<i>Conversion factor</i>
	Rebaudioside M	C ₅₆ H ₉₀ O ₃₃	0.25
Molecular weight and CAS number	<i>Trivial name</i>	<i>CAS Number</i>	<i>Molecular weight (g/mol)</i>
	Rebaudioside M	1220616-44-3	1291.29
Assay	Not less than 95% rebaudioside M on the dried basis		

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

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
pH	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 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
Particle size	Not less than 74 µm (using a mesh #200 sieve with a particle size limit of 74 µm)”