The Amendment of Standards for Specification, Scope, Application and Limitation of Food Additives

MOHW Food No.1091304438, 25 01, 2021

Appendix 1: Standards for Scope, Application and Limitation of Food Additives

03. Antioxidants

	Food Additive	9	Scope and Application		
Code	Items		Standards	Limitations	
03027	Extracts of	1.		For	
03027		1.	Nut spreads, processed		
	Rosemary		nuts, baked products,	manufacturing or	
			sauces, seasonings and	processing	
			condiments: not more	<u>purpose.</u>	
			than 200 mg/kg as the		
			sum of carnosic acid		
			and carnosol (expressed		
		2	on fat basis).		
		2.	Chewing gums and		
			bubble gums, processed		
			eggs and egg products,		
			seaweed-based fish roe		
			analogues, dehydrated		
			potato products: not		
			more than 200 mg/kg as		
			the sum of carnosic acid		
		2	and carnosol.		
		3.	Fish and fishery		
			products including		
			molluses and		
			crustaceans with a fat		
			content higher than		
			10%, meat products		
			with a fat content higher		
			than 10%(excluding		
			dried sausages): not		
			more than 150 mg/kg as		
			the sum of carnosic acid		
			and carnosol (expressed		
		4	on fat basis).		
		4.	<u>Dried sausages</u> ,		

- margarine and fat
 Spreads: not more than
 100 mg/kg as the sum of
 carnosic acid and
 carnosol (expressed on
 fat basis).
- 5. Edible fat and oil(excluding virgin oils, olive oils and pomace oil), Vegetable oil pan spray, and potato-, cereal- or starch-based snacks: not more than 50 mg/kg as the sum of carnosic acid and carnosol (expressed on fat basis).
- 6. Soups and broths: not more than 50 mg/kg as the sum of carnosic acid and carnosol.
- 7. Dried milk for manufacturing of ice cream: not more than 30 mg/kg as the sum of carnosic acid and carnosol (expressed on fat basis).
- 8. Food supplements
 supplied in capsule,
 tablet, powder and
 liquid form for groups
 over 3 years old: not
 more than 400 mg/kg as
 the sum of carnosic acid
 and carnosol.
- 9. Fish and fishery products including molluscs and crustaceans with a fat content not higher than 10%, meat products with a fat content not

higher than 10%(excluding dried sausages): not more than 15 mg/kg as the sum of carnosic acid and carnosol (expressed on fat basis). 10.Fillings of Flour products: not more than	

09. Colors

Code	Food Additive Items	Scope and Application Standards	Limitations
09022	Sodium Copper Chlorophyllin	 Dried seaweeds: not more than 0.15 g/kg calculated as Cu. Preserved vegetables and fruits, baked products, jams and jellies: not more than 0.1 g/kg calculated as Cu. Flavored milk products, soups and non-alcoholic flavoured drinks: not more than 0.064 g/kg calculated as Cu. Chewing gums and bubble gums: not more than 0.05 g/kg calculated as Cu. Foods in capsule or tablet form: not more than 0.5 g/kg. Candy: not more than 0.02 g/kg calculated as Cu. 	

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Appendix 2: Standards for Specification of Food Additives

03. Antioxidants

§ 03027

Extracts of Rosemary

SYNONYMS Extracts of Rosemary Leaf (Antioxidant)

<u>**DEFINITION**</u> Extracts of rosemary contain several components,

which have been proven to exert antioxidative functions. These components belong mainly to the classes of phenolic acids, flavonoids, diterpenoids. Besides the antioxidant compounds, the extracts can also contain triterpenes and organic solvent extractable material specifically defined in the following specification. Rosemary leaf extract antioxidant is prepared by extraction of the leaves of *Rosmarinus officinalis* using a food approved solvent system. Extracts may then

be deodorized, decolorized and standardized.

Chemical names Rosemary extract (Rosmarinus officinalis)

CHARACTERISTICS

IDENTIFICATION

Reference: Carnosic $acid(C_{20}H_{28}O_4)$ and Carnosolantioxidative $(C_{20}H_{26}O_4)$ (which comprise not less than 90%compounds:of the total phenolic diterpenes)

<u>Acetone extraction: not less than 10% w/w,</u>
<u>diterpenes</u>

<u>expressed as the total of carnosic acid and</u>

carnosol

Supercritical carbon dioxide extraction: not less than 13% w/w, expressed as the total of

carnosic acid and carnosol

Deodorized ethanolic extract: not less than 5%

w/w, expressed as the total of carnosic acid and carnosol

Two-step extraction using hexane and ethanol: not less than 5% w/w, expressed as the total of carnosic acid and carnosol

Antioxidants/Vola Total % of carnosic acid and carnosol / Total %

tiles Ratio of reference volatiles: (-)-borneol, (-)bornyl

acetate, (-)-camphor, 1,8-Cineole (eucalyptol)

and verbenone: not less than 15

Density not less than 0.25 g/mL

Solubility <u>Insoluble in water</u>

Residual solvents Acetone extraction: Acetone: not more than 500

mg/kg

Supercritical carbon dioxide extraction: Ethanol:

not more than 2%

Deodorized ethanolic extract: Ethanol: not more

than 500 mg/kg

Two-step extraction using hexane and ethanol:

Hexane: not more than 25 mg/kg, Ethanol: not

more than 500 mg/kg

Purity

Loss on drying : Not more than 5%

<u>Arsenic</u> : Not more than 3 mg/kg
Lead : Not more than 2 mg/kg

Category : Food additives category (03)

Functional uses : Antioxidants