

DEFINITION

The contribution of oligo elements to cosmetics is achieved by manufacturing acetylmethionates of different metals : Co, Cu, Mg, Mn, Zn, etc... (N.B. this list is not restrictive.) They are water soluble, therefore ionizable.

I.N.C.I. names : Cobalt acetylmethionate
Copper acetylmethionate
Magnesium acetylmethionate
Manganese acetylmethionate
Zinc acetylmethionate

PRESENTATION

To facilitate the use of these products, we deliver solutions with the concentration expressed in metallic acetylmethionate. These solutions are dosed with precision by atomic absorption spectrophotometry for metals, and H.P.L.C. for acetylmethionin. The smell of the solutions is negligible at doses of utilization.

METALLIC CATION	FORMULA	MW	% CATION	%*	%METAL ION IN THE PRODUCT W/W	CAS NUMBER
Cu	A.Met2Cu	445.5	14.25	2.5	0.355	105883-51-0
Mn	A.Met2Mn	437.0	12.5	10	1.26	105883-50-9
Zn	A.Met2Zn	447.4	14.61	10	1.46	102868-96-2
Co	a.Met2Co	441.0	13.37	5	0.668	105883-52-1
Mg	A.Met2Mg	406.0	5.91	30	1.773	105883-49-6

* : Acetyl metallic salt in the product (W/W)

PRESERVATION

Phenonip 0.2%

ACTIVITIES

The activity of EXSYMOL's Oligo element is linked to metallic ion and acetylmethionin :

- Certain metals exist as traces in the organism and act as catalysts in enzymatic cellular reactions. Their intervention is necessary for biological equilibria, as they ensure normal metabolic exchanges.

These metals may be divided into three categories :

- 1 - potential regulator ions (with very fast discharge) : sodium, potassium
- 2 - structural stabilizer ions : magnesium, calcium
- 3 - chemical catalysts : • strongly acid : zinc
• for oxido-reduction : iron, copper, cobalt.

Important mineral elements in the organism :

Na- K- Ca- Mg- Mn- Fe- Co- Ni- Cu- Zn- Ag- Au- Al- Si.

- Methionin and acetylmethionin intervene :

- in the production of keratin for the hair, nails etc,
- in the contribution of the particularly reactive and labile thiol -SH group,
- by transporting hydrogen in oxido-reduction reactions.

They are therefore elements involved in detoxification, transpeptidization and the formation of keratin, enzyme, and hormone-chains.

Acetylmethionin is also a hydrophilic element with a dermic fixation due to the lipophilic chain of its molecule, and ensures normal moisturization of the derm.

DOSES TO BE USED

The advised doses are indicated in the above table.

LITERATURE

Documents available on request : generalities, technical.