

MAGNESIA – Your specialist for Pidolates



MAGNESIA

MINERAL COMPOUNDS

Magnesia Pidoles Range – New ingredients for better products

Binding Minerals and Trace Elements to PCA (Pidolic acid, Pyrrolidone carboxylic acid) creates an innovative and highly bioavailable molecule called Pidoles.

PCA is a natural and physiological derivative that is involved in numerous biological mechanisms. It is a key physiological intermediate within the body and is for example involved in the Krebs Cycle and also the γ -glutamylz Cycle. PCA possesses a carboxyl function, which allows the formation of salts chiefly from minerals. The low molecular weight of the PCA residue allows a higher level of minerals to be obtained compared with other derivatives currently used such as gluconates or orotates.



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Pidolate range:

Calcium pidolate / $C_{10}H_{12}N_2O_6Ca$

Calcium content: 13.5 %

Solubility at 20 °C: 24 %

Magnesium pidolate / $C_{10}H_{12}N_2O_6Mg$

Magnesium content: 8.5 %

Solubility at 20 °C: > 60 %

Manganese pidolate / $C_{10}H_{12}N_2O_6Mn$

Manganese content: 17.6 %

Solubility at 20 °C: 31 %

Iron pidolate / $C_{10}H_{12}N_2O_6Fe$

Iron content: 17.6 %

Solubility at 20 °C: 55 %

Zinc pidolate / $C_{10}H_{12}N_2O_6Zn$

Zinc content: 20.3 %

Solubility at 20 °C: 17 %



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