

MEDIUM-MINERAL CERELIA WATER: FROM BOLOGNA'S APPENNINO, ONE OF THE PUREST WATER EXISTING. TODAY AND YESTERDAY'S INDICATIONS IN UROLOGY.

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The Cerelia spring flows through the appennino Bolognese, located seven hundred meters above sea level, in Cerelio, a smiling and sunny small town, province of Vergato , 48 kilometers from Bologna.

After reading several historical papers, It comes out that Local water was really appreciated and well-known by residents for its beneficial properties.

Nevertheless there are no informations about it to be used for certain in a therapeutic way until XIX century.

During the cholera epidemic in 1855, Cereglio was been recognized for its notably low mortality-rate, which was pointed out by chroniclers of that age, who supposed that its weather and water had healthy and protective effects.

In 1903, following the suggestion of Bologna's health county office , the water was chemically, physically and bacteriologically analyzed ,the positive results of these surveys brought to the realization, about in the 50's , of several structures to enhance Cereglio's water, until the construction of the present bottling system.

CHEMICAL-PHYSICAL AND BACTERIOLOGICAL ANALYSIS

From the chemical and physical researches carried out by the ARPA Agency in Emilia Romagna (Regional Agency Prevention Environment, see table 1), it comes out that Cerelia water is a medium- mineral bicarbonate-alkaline-earthly water, whose lowest nitrate and nitrite values makes it one of the purest water existing.

PHYSICAL PROPERTIES AND CHEMICAL-PHYSICAL CRITERIA	
WATER TEMPERATURE	8°C
CONDUCTIVITY AT 20°C	599 μ S/cm
pH	7,4
CHEMICAL EVALUATIONS	
FIXED WASTE AT 180°C	378 mg/l
DISSOLVED SUBSTANCES IN 1 LITER	
Na ⁺	6,3 mg/l
K ⁺	0,57 mg/l
Ca ⁺⁺	119,7 mg/l
NO ₂	<0,01 mg/l
NO ₃ ⁻	0,9 mg/l
Cl ⁻	4,4 mg/l
F ⁻	0,11 mg/l
HCO ₃ ⁻	412 mg/l
SO ₄ ⁻	6,0 mg/l

SiO ₂ ⁻	4,80 mg/l
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Table 1. Chemical and physical tests ARPA (September 2007)

The bacteriological analysis , carried out on a water sample which was directly taken from the spring and afterwards was sowed in agar plates with a 48 hours incubation period , showed the complete absence of Colibacteria, Streptococcus Fecalis, Pseudomonas Aeruginosa and Staphilococcus Aureus with a microbic charge at 20° less then 8 CFU/ml; that's the reason why Cerelia water has to be considered highly bacteriologically pure.

PRODUCTION CYCLE AND BIOLOGICAL PROPERTIES

The Company' s production cycle is divided into two separate bottling lines: the first one is dedicated to the water packaging in bottles made of glass to give back, while the second one in bottles made of glass to dispose of and in PET(polyethylene terephthalate).

Passing through stainless steel pipes which are periodically subjected to cleaning and upkeeping, the water goes through the springs up to the bottle, coming into a really brief contact with air only during the passage from the bottler to the package.

For this reason , its beneficial and therapeutic properties remain unaltered as if the water was drunk just after drawing it on the spring .

Preserving the water in glass bottles makes it able to keep intact its own biological properties for an undefined time. The poliethylene bottle packaging has also shown to keep unaltered the water's biological properties , as well as the lack of poisonous substances 'transferring (by the transferring test , periodically performed in the plant)

Concerning this, a study carried out by Federici et al., aimed to check if CERELIA water's biological properties keep long even after a long bottling period (>120 days), has shown the complete persistence of its eumetabolic action even after a long time, without any chemical-physical variation .

Anyway we advise you to follow the due date suggested in the bottle and, in particular for the poliethylene's bottles, we kindly suggest not to expose them to sunbeams, or to deep heat sources.

CERTIFICATIONS

Acqua Cerelia has obtained, through the years, international prestigious reviews: in fact it has been the first water in Italy to obtain the EMAS certification(*Eco-Management and Audit Scheme*, sistema comunitario di Ecogestione e Audit) as well as the first one in the world to benefit from the EPD certification(*Enviromental Product Declaration*).

It's still being made a project aimed to demonstrate how Cerelia water 's manufacturing plants cause the emission of a very small quantity of CO₂, showing the low environmental impact on the plant and on the production cycle.

INDICATIONS IN UROLOGY.

Talking about urinary lithiasis, a disease that affects man from ancient times , a continuous idropinic therapy with Cerelia water has proved to have important curative and prophylactic effects thanks to its chemical characteristics and its particular saline composition.

In fact, quite apart from stones structural elements , Cerelia water let the whole urinary tree be washed , it intensifies the diuretic activity , it waters down the salts in the urine, and increases the peristaltic activity in excretory ducts .

These activities not only have a protective and preventive effect on people who suffers from urolithiasis , but they also ensure a protective result in low urinary ducts infections(for bacteria often are present in stones and renella?)and in LUTS (lower urinary tract symptoms) Cerelia water often allows a precocious relief from the symptoms , a decrease of bacteria and a speedier recovery.

Basing on a study carried out by Zucchelli et al in The Nefrology and Dialysis Department of Bologna University , it can be seen how, after the assumption of 200 ml a day of Cerelia water (fasting) for 30 days, there is a statistically important decrease of serum uric acid level (5.17 mg/dl vs. 6.34 mg/dl), an uricosuria increasing(497 mg/die vs. 458 mg/die) and ,therefore a huge increasing of uric acid clereance..

CONCLUSIONS

In urology Cerelia owned and owns therapeutic and preventive properties , as it has been demonstrated by experimental surveys . Cerelia water consumption is suitable in every case of uric acid metabolic disease, both the primitive nature ones and the secondary nature too,(neoplasia, antiblastic therapies, chronic flogosis, autoimmunitary diseases), and it helps preventing pathologies connected to them.(urolithiasis, urate-related nephrology, artrite gottosa?)

Cerelia mineral still water has an important prophylactic and therapeutic role for all the affections that bring an increasing of the uric acid excretion, therefore a (diatesi litiastica)

In Particular it has to be remembered how the uric acid metabolism rises in many of the uro-oncologic neoplasya (in basic conditions but above all during and after a specific treatment.), diseases particularly diffused today in the population, especially after a certain age (in a frequency scale they got the first place in the occidental countries!)

Thanks to its “healthy virtues” and its bacteriological pureness , Cerelia water is particularly suitable for uro-oncologic patients (patients with high risk of sovraïnfections, often with pathologic uric acid metabolism !)decreasing the risk of lithiasic complications and disuric symptoms of the low urinary tract. It also helps bringing a general comfort to all the organism , and also a QOL improvement for the patiens.

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