

TEST REPORT

Customer

AGUAS DE SOLAN DE CABRAS, S.A.
Paraje Solán de Cabras
16893 BETETA

Analysis

QUARTERLY analysis in a water sample. Parameters listed in Royal Decree 1798/2010"

Specification

Royal Decree 1798/2010, of 30 December, regulating the exploitation and marketing of natural mineral waters and spring waters packaged for human consumption. Royal Decree 902/2018, of 20 July, amending the RD 1798/2010.

Sample Information

Sample type Natural Mineral Water.
Reference **Solán de Cabras**
Quarter 4th.
Batch 10-11-22 173678 L0303151513
Sampling description * Sample taken by the concerned party.
Containers Labelled goods
Type of container Polymer compound.
Type of top Threaded polymer compound.
Capacity 1.5L.

Dates

Reception Date
Nov 13,2020

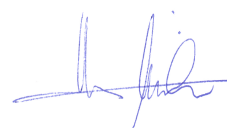
Starting Date
Nov 13,2020

Ending Date
Nov 25,2020

Technical Manager
Marta Pedemonte Almirall
Approval
Nov 26,2020



Microbiology Director
Míriam Monedero Boado
Approval
Nov 27,2020



RESULTS OBTAINED

MICROBIOLOGICAL PARAMETERS

Parameter	Notes	Result (Uncertainty)	Paramètric Value	Unit
Colony count at 22°C ISO 6222:1999. Count	1	0	---	cfu/mL
Colony count at 37°C ISO 6222:1999. Count	1	0	---	cfu/mL
Coliform Bacteria ISO 9308-1:2014. Filtration by count		0	0	cfu/250 mL
<i>Escherichia coli</i> ISO 9308-1:2014. Filtration by count		0	0	cfu/250 mL
Fecal streptococcus UNE-EN ISO 7899-2:2001. Filtration by count		0	0	cfu/250 mL
Spores of sulfite-reducing anaerobes IP PAMB-20. Filtration by count		0	0	cfu/50 mL
<i>Pseudomonas aeruginosa</i> UNE-EN ISO 16266:2008. Filtration by count		0	0	cfu/250 mL

CHEMICAL PARAMETERS

Parameter	Notes	Result (Uncertainty)	Paramètric Value	Unit
pH Temperature : 22 °C IP PAFQ-03. Electrometry.		7.7 (±0.17)	---	
Conductivity at 20°C IP PAFQ-04. Electrometry.		431 (±10%)	---	µS/cm
Total dissolved solids at 180 °C IP PAFQ-12. Gravimetry.		261 (±15%)	---	mg/L
Silica IP PAFQ-05. UV-Vis Spectrophotometry.		7.7 (±20%)	---	mg SiO ₂ /L
Alkalinity (TA) IP PAFQ-46. Titration.		<1.0	---	mg CaCO ₃ /L
Alkalinity (TAC) IP PAFQ-46. Titration.		234 (±15%)	---	mg CaCO ₃ /L
Total hardness IP PAFQ-09. By calculation.		247 (±6%)	---	mg CaCO ₃ /L
Total hardness (°F) IP PAFQ-09. By calculation.		24.7 (±6%)	---	°F
* Total Organic Carbon (TOC) IP PAFQ-121. Chemical oxidation. Conductivity detection.		<1.0	---	mg C/L
Bicarbonate IP PAFQ-46. Titration.		286 (±15%)	---	mg HCO ₃ /L
Carbonate IP PAFQ-46. Titration.		<1.2	---	mg CO ₃ /L
Chloride IP PAFQ-51. Ion chromatography.		7.5 (±15%)	---	mg Cl/L
Sulphate IP PAFQ-51. Ion chromatography.		21.1 (±10%)	---	mg SO ₄ /L
Nitrate IP PAFQ-51. Ion chromatography.		2.2 (±20%)	50	mg NO ₃ /L
Bromide IP PAFQ-51. Ion chromatography.		<0.20	---	mg Br/L
Fluoride IP PAFQ-51. Ion chromatography.		<0.20	5.0	mg F/L
Nitrite IP PAFQ-17. UV-Vis Spectrophotometry.		<0.02	0.1	mg NO ₂ /L
Calcium IP PAFQ-50. Titration.		57.4 (±9%)	---	mg Ca/L
Magnesium IP PAFQ-50. Titration.		25.1 (±16%)	---	mg Mg/L
Sodium IP PAFQ-65. Atomic emission.		4.9 (±30%)	---	mg Na/L
Potassium IP PAFQ-65. Atomic emission.		1.0 (±20%)	---	mg K/L
Ammonium IP PAFQ-19. UV-Vis Spectrophotometry.		<0.10	---	mg NH ₄ /L

QUANTITATIVE CHEMICAL COMPOSITION – IONIC BALANCE

Anions	Result (mg/L)	mEq/L	% mEq/L
Bicarbonate (HCO ₃)	286	4.68	87.31
Carbonate (CO ₃)	<1.2	0.00	0.00
Sulphate (SO ₄)	21.1	0.44	8.21
Chloride (Cl)	7.5	0.21	3.92
Nitrate (NO ₃)	2.2	0.03	0.56
Fluoride (F)	<0.20	0.00	0.00
Bromide (Br)	<0.20	0.00	0.00
Nitrite (NO ₂)	<0.02	0.00	0.00
Total		5.36	100 ± 0.03

Cations	Result (mg/L)	mEq/L	% mEq/L
Calcium (Ca)	57.4	2.87	55.41
Magnesium (Mg)	25.1	2.07	39.96
Sodium (Na)	4.9	0.21	4.05
Potassium (K)	1.0	0.03	0.58
Ammonium (NH ₄)	<0.10	0.00	0.00
Total		5.18	100 ± 0.03

NOTES

Specific Notes

--	The applicable specification (see front page report) does not indicate parametric value for this parameter. When specification is not indicated, this symbol turns up in all parameters.
1	After packaging, the total colony content should not exceed the point of delivery in 100 colonies per milliliter at 20-22°C for seventy-two hours on agar plates and 20 colonies per milliliter to 37°C for twenty-four hours on agar plates. The count should be done within twelve hours after the packaging, during which time, the water being maintained at a temperature between 4°C and 1 C. Without prejudice to the preceding paragraphs and Article 4, during the marketing the total colony revivable natural mineral water can only result from the normal increase in germs that had at the point of delivery. (R.D. 1798/2010).
IP	Internal procedure.

General Notes

If the indicated numerical values are followed by the sign "<" they mean that the result obtained does not fall below the lowest limit of quantification of the corresponding analytical method.

If the indicated numerical values are followed by the sign ">" they mean that the result obtained does not fall above the upper limit of quantification of the corresponding analytical method.

Uncertainty is indicated in physicochemical tests if the result falls in of accredited working range. Uncertainty in microbiological test, included in the scope of accreditation, is available to costumer.

This report only vouches for the analysed sample.

The Laboratory is not responsible for the data provided by the customer.

When samples are taken by the customers:

Sample type, reference and sampling date are will be those data provided by the customer.

This report only vouches for the analyzed sample as it arrives to the Laboratory.

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El Prat de Llobregat (Barcelona), November 26th, 2020