Corrigendum to: “*Short communication: Electrochemical activated drinking water effects on bovine milk production and composition, including chlorate, perchlorate, and fatty acid profile*” (J. Dairy Sci. 103:1208–1214)

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Units of measurement for chlorate and perchlorate in Table 1 (page 1211) and Table 4 (page 1213) were incorrect and should be modified as shown below (corrected units in bold). In Table 1, values were shown as µg/kg, but should be mg/kg; in Table 4, they were shown as mg/L but should be µg/L.

On page 1212, the second sentence of the second column should be corrected as follows: “It is important to note that the maximum residue limit allowed for chlorate in EC listed foods [regulation (EC) no. 396/2005] is **0.01 mg/kg** (EFSA, 2015).”

Although the European Food Safety Association (EFSA) has not established a maximum level for chlorate in water, the World Health Organization has established a guideline maximum level of 0.7 mg/L in drinking water.

The authors regret the errors.

REFERENCES

Vargas-Bello-Perez, E., R. Dhakal, M. O. Nielsen, L. Ahrne, and H. H. Hansen.. 2020. Short communication: Effects of electrochemically activated drinking water on bovine milk production and composition, including chlorate, perchlorate, and fatty acid profile. J. Dairy Sci. 103(2):1208–1214. <https://doi.org/10.3168/jds.2019-17510>.

Table 1. Milk production, milk composition, and milk metabolites from cows fed with or without electrochemically activated water (ECW; n = 5 cows per treatment unless otherwise stated)¹

Parameter	Treatment			P-value		
	Control	ECW	SEM	Treatment (T)	Period (P)	T × P
Milk yield, kg of ECM (61 cows per treatment)	32.6	33.4	0.87	NS	<0.001	<0.001
Milk yield, kg of ECM	30.4	32.7	1.50	NS	<0.001	NS
Milk composition						
SCC, × 10 ³ /mL (61 cows per treatment)	311.78	243.59	49.98	NS	NS	0.026
SCC, × 10 ³ /mL	547.75	138.40	137.24	0.01	NS	NS
Fat, %	5.42	5.26	0.38	NS	NS	0.040
Lactose, %	4.51	4.46	0.05	NS	NS	NS
Protein, %	4.06	3.88	0.07	NS	0.06	NS
MUN, mmol/L	3.95	4.59	0.17	0.02	<0.001	<0.001
Milk metabolite						
Acetone, mmol/L	0.06	0.05	0.01	NS	<0.001	0.083
BHB, mmol/L	0.11	0.04	0.02	0.03	0.01	NS
Iodine, µg/kg	173.10	178.40	22.04	NS	<0.001	NS
Chlorate, mg/kg	<0.002	<0.002	<0.002	—	—	—
Perchlorate, mg/kg	<0.002	<0.002	<0.002	—	—	—

¹The ECM was calculated according to the Nordic feed evaluation system (NorFor; Volden, 2011).

Table 4. Chlorate and perchlorate contents in different sites from the water supply of the farm

Location	Period, d	Chlorate, µg/L	Perchlorate, µg/L
Pipeline without ECW ¹		<2	<0.5
Pipeline with ECW		<2	<0.5
Tap water	0	<2	<0.5
Drinking troughs without ECW		<2	<0.5
Drinking troughs with ECW		<2	<0.5
Pipeline without ECW		<2	<0.5
Pipeline with ECW		190	<0.5
Tap water	30	<2	<0.5
Drinking troughs without ECW		<2	<0.5
Drinking troughs with ECW		280	<0.5
Pipeline without ECW		<2	<0.5
Pipeline with ECW		490	<0.5
Tap water	60	<2	<0.5
Drinking troughs without ECW		<2	<0.5
Drinking troughs with ECW		330	<0.5
Pipeline without ECW		<2	<0.5
Pipeline with ECW		<2	<0.5
Tap water	90	<2	<0.5
Drinking troughs without ECW		<2	<0.5
Drinking troughs with ECW		<2	<0.5

¹ECW = electrochemically activated water.