**Evaluation of trace element status of organic dairy cattle**

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Supplementary Table S2.Results of the analytical quality control programme used in the determination of essential trace and toxic elements.

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| --- | --- | --- | --- |
| Element | Detection limit(μg/L) | NIST-1549 |   |
|  | Certified levels(mean ± SD; mg/kg) | Analysed levels(mean ± SD; mg/kg) |
| Co | 0.026 | (0.0041) | 0.0038±0.0021 |
| Cr | 0.060 | 0.0026±0.0007 | 0.0024±0.0005 |
| Cu | 0.394 | 0.7±0.1 | 0.676±0.02 |
| Fe | 0.481 | 1.78±0.10 | 2.04±0.23 |
| I | 0.867 | 3.38±0.02 | 3.56±0.32 |
| Mn | 0.390 | 0.26±0.06 | 0.271±0.051 |
| Mo | 0.032 | (0.34) | 0.332±0.076 |
| Ni | 0.098 | - | - |
| Se | 0.323 | 0.11±0.01 | 0.119±0.04 |
| Zn | 0.521 | 46.1±2.2 | 41.5±1.9 |
| As | 0.038 | (0.0019) | 0.0032±0.0014 |
| Cd | 0.023 | 0.0005±0.0002 | 0.0004±0.0002 |
| Hg | 0.011 | 0.0003±0.0002 | 0.0003±0.0003 |
| Pb | 0.156 | 0.019±0.003 | 0.021 ± 0.003 |