

evaluated according to ISO 13528:2015 [1], ISO GUM [2] and IUPAC harmonized protocol [3].

Reference values for Dried Mixed Spices Powder

Element	unit	Reference value \pm expanded uncertainty (k=2) $X_{\text{ref}} \pm U$
As	mg/kg d.m.	0.148 ± 0.030
Cd	mg/kg d.m.	0.116 ± 0.013
Cr	mg/kg d.m.	2.03 ± 0.22
Cu	mg/kg d.m.	7.94 ± 0.39
Fe	mg/kg d.m.	264 ± 28
Hg	$\mu\text{g/kg d.m.}$	8.1 ± 1.5
Mn	mg/kg d.m.	86.7 ± 8.7
Mo	mg/kg d.m.	0.475 ± 0.025
Pb	mg/kg d.m.	0.515 ± 0.088
Se	$\mu\text{g/kg d.m.}$	58.2 ± 9.6
Zn	mg/kg d.m.	31.2 ± 2.4

Long-time stability is monitored during storage. The shelf life of the control material CS-S-1 has been established to be **31 December 2025**.

References

1. ISO 13528:2015 Statistical methods for the use in proficiency testing by interlaboratory comparison. Geneva. 2015
 2. International Organization for Standardization (ISO). Guide to the Expression of Uncertainty in Measurement. ISO. Geneva. 1993 (corrected and reprinted 1995)
 3. M. Thompson. S.L.R. Ellison. R. Wood. The International Harmonized Protocol for the Proficiency Testing of Analytical Chemistry Laboratories (IUPAC Technical Report). Pure Appl. Chem. 78 (2006) 145
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