



الوكالة الدولية للطاقة الذرية
国际原子能机构
INTERNATIONAL ATOMIC ENERGY AGENCY
AGENCE INTERNATIONALE DE L'ÉNERGIE ATOMIQUE
МЕЖДУНАРОДНОЕ АГЕНТСТВО ПО АТОМНОЙ ЭНЕРГИИ
ORGANISMO INTERNACIONAL DE ENERGÍA ATÓMICA

1982-10-01

IAEA ANIMAL BONE (H-5)
PROVISIONAL CERTIFICATE OF ANALYSIS

The provisional certified values listed below are based on the results of an intercomparison organized by the IAEA during the second half of 1981. The accompanying report No.1, dated 1982-01-15, gives details of results received by 1982-01-13. These, plus additional results received by 1982-09-30, have been evaluated by statistical methods and by the application of various additional criteria, e.g. that, for certification of any element, there must be satisfactory agreement between the results obtained by at least two independent analytical methods, and that the overall uncertainty in the certified value should not exceed a certain figure (the figure used here was $\pm 30\%$ for the 95 % confidence interval).

The user's attention is drawn to the description of the material in Appendix I of Report No.1. The minimum recommended weight for analysis is 100 mg. The dry weight should be established by oven drying for 1-hour at 100 °C (preferably by measurements on a separate subsample from the one analysed).

Element	Unit ¹⁾	Concentration	% error ²⁾	CI ³⁾
Ba	mg/kg	79	16	67-92
Br	mg/kg	3.5	14	3.0-4.0
Ca	g/kg	212	3.8	204-220
Cl	mg/kg	550	18	450-650
Fe	mg/kg	79	7.5	73-85
K	mg/kg	680	17	560-800
Mg	g/kg	3.55	2.5	3.46-3.64
Na	g/kg	5	5.6	4.7-5.3
P	g/kg	102	8.4	93-110
Pb	mg/kg	3.1	18	2.6-3.7
Sr	mg/kg	96	8.6	88-105
Zn	mg/kg	89	5.9	84-95

1) Dry weight basis

2) Percent error which, applied to the certified concentration (in both plus and minus directions), defines the 95 % confidence interval.

3) Overall 95 % confidence interval in concentration units.