

Table 1. Simulation materials.

Sample No.	Description
A1	Back ground sample: Kaoline, 400g; quartzose sand, 400.
A2	Organic matter sample: Kaoline, 400g; quartzose sand, 400; Coniferae branch and bark, 50g.
A3	Metal sample: Kaoline, 400g; quartzose sand, 400; iron powder, 40g; Copper powder, 10g.
A4	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; iron powder, 16g; Copper powder, 4g; Coniferae branch and bark, 20g; Gypsum, 100g.
A5	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; iron powder, 16g; Copper powder, 4g; Coniferae branch and bark, 50g; Gypsum, 100g.
A6	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; iron powder, 20g; Copper powder, 20g; Coniferae branch and bark, 50g; Gypsum, 200g.
A7	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; lead powder, 20g; Zinc powder, 20g; Coniferae branch and bark, 50g; Gypsum, 200g.
A8	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; copper powder, 20g; lead powder, 20g; Zinc powder, 20g; Coniferae branch and bark, 50g; Gypsum, 200g.
A9	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; copper powder, 20g; iron powder, 20g; lead powder, 20g; Zinc powder, 20g; Coniferae branch and bark, 50g; Gypsum, 197g.
A10	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; copper powder, 30g; iron powder, 20g; lead powder, 30g; Zinc powder, 20g; Coniferae branch and bark, 50g; Gypsum, 200g.
A11	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; Coniferae branch and bark, 50g; Gypsum, 200g.
A12	Organic matter and metal sample: Kaoline, 400g; quartzose sand, 400; Coniferae branch and bark, 50g; Salt, 50g.

Simulation conditions: Water depth 2 cm; Temperature 80 °C; Beginning date, Aug. 1, 2002.

show strong fluorescence. Huminite reflectance (R) has reached 0.23%R. From 2002 to 2006 the samples were measured 4 times by microscope. Cutinite and subnitine macerals keep always good shape and strong fluorescence. Resinite macerals occurred later than cutinite and subnitine, and was observed in 2006. Huminite reflectance values reach 0.25%R in 2006. Textinite and ulminite formed in the same time with cutinite and subnitine.

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