

## **Valorization of Bambara groundnut shell via intermediate pyrolysis: Products distribution and characterization**

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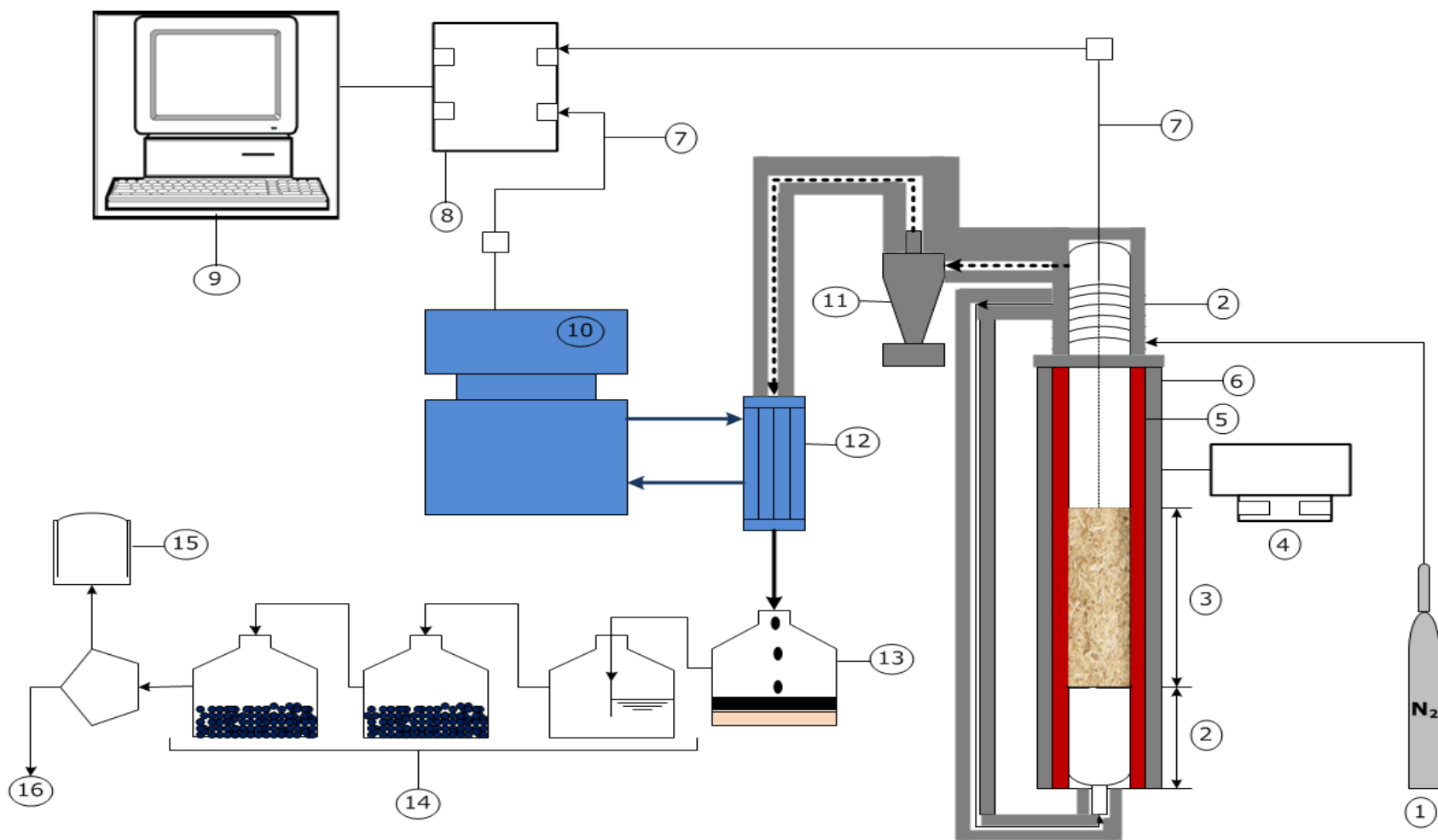
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**Fig. 1.** Experimental set-up. (1) Nitrogen cylinder, (2) nitrogen preheating sections, (3) pyrolysis section, (4) furnace controller, (5) heater, (6) insulator, (7) thermocouples, (8) data logger, (9) computer, (10) water chiller, (11) cyclone, (12) condenser, (13) bio-oil collector, (14) gas scrubber, (15) gas sampling bag, (16) gas venting