**Table S1** Characteristics of widely used EBC collectors

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Commercial EBC  devices | Materials | Size (mm; length X width X height) | Weights | Collection temperatures | Physical collection efficiencies |
| Rtube® | Polyethylene;  O-Ring by PTFE (Teflon) | 290 X 35 X 100 | 442 g | -20°C | 1,000 μL/7 min for adult;  700 μL/10min for child (from manufacture) |
| EcoScreen® | EcoScreen® | 290X160X200 | 23 kg | -10°C | 1,880 μL/10 min (Soyer et al., 2006) |
| Anacon® |  |  |  | −20 °C | 1,350 μL/10 min (Czebe et al., 2008) |
| TurboDeccs |  | 200 X 160 310 | 5 kg |  | NA |
| Closed glass condenser system | Glass |  |  | 0°C | 465 μL/11 min (Rosias et al., 2010) |
| Our device | polytetrafluoroethylene (PTFE) material | 100 x 50 x 30 | 105 g | Film treated by -70oC | 100 μL/min |

**References**

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