

● N-butanol detection protocol

1. Obtain 10 ml culture at 24, 72, 120, 144h (prepare 3 parallel samples, each 10ml).
2. Add 2 ml ethyl acetate containing n-pentanol (0.005% v/v), an internal standard, to 10 ml samples, and vortex for 1 min.
3. Recover the ethyl acetate and apply it to a Thermo Trace Ultra gas chromatograph (GC) equipped with a TriPlus AS autosampler and a TRWAXMS column (Thermo Scientific).
4. GC program:
initial temperature, 40 °C for 1.2 min, ramped to 130 °C at 25 °C/min, ramped to 220 °C at 35 °C/min.