Supplementary method

Specimen processing and analysis:
The samples were treated in the Mycology Laboratory of Bordeaux University Hospital. All respiratory specimens, with the exception of BAL, were diluted 1:1 (v/v) in a 7.5% Sputasol solution (Oxoid), vortexed, and incubated for 30 minutes at 37°C. After centrifugation (2800g, 10 min), the pellet was resuspended in 500 μL of the supernatant, and two drops were spotted on two slides for microscopy, and 200 μL was used for PCR. One slide was subjected to May-Grünwald-Giemsa staining, and the other to silver staining (1). Both were examined by experienced microscopists for the presence of asci and/or other trophic forms. DNA extraction of 200 μmol was performed on MagNa Pure 96 (Roche Diagnostics), PCR amplification on MagNa 480 (Roche Diagnostics) using a LightMix Pneumocystis jirovecii kit (TIB MOLBIOL) according to the manufacturer’s instructions. The target gene was a multi-copy gene coding for Major Surface Glycoprotein (216-240 base pairs). The cut-off value to consider qPCR as significant was 1000cp/mL according to the commercial recommendations.