

Supplementary file 2: Stool sample collection, storage and processing in the included studies

Study	Timing of stool collection relative to start anti-TB treatment	Stool sample collected per participant	Stool volume	Stool storage prior to processing	Stool processing method			
					Pretreatment, decontamination and neutralization	Homogenization process	Centrifugation	Filtration
Kokuto 2015 (30)	< 7 days	1	2 cm ³	Not reported	distilled water, 3% NACL-NaOH, PBS	vortex mixing	Yes	Not reported
Konno 2019 (31)	Not reported	1	100 – 200 µl	Not reported	semi alkaline proteinase, NALC-NaOH, PBS	Not reported	Yes	Not reported
Liu 2019 (32)	Prior to treatment		1gm	Not reported	PBS, sample reagent	vortex mixing	Not reported	Not reported
Oramasionwu 2013 (33)	Prior to treatment	1	1 gm	Not reported	sterile water, 1% NACL-NaOH, PBS	emulsifying with glass beads	Yes	Yes, sterile gauze
Rahman 2018 (34)	Not reported	1	2 gm	-20° C	sterile normal saline, NALC-NaOH-Na-citrate, PBS	vortex mixing	Yes, twice	Not reported

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					Pretreatment, decontamination and neutralization	Homogenization process	Centrifugation	Filtration
Abaye 2017 (35)	Prior to treatment	1	1 gm	4° C	NALC-NaOH, Tris buffer, 1% chlorhexidine digluconate, PBS	Emulsifying with glass beads and vortex mixing	Yes	Yes
DiNardo 2018 (36)	Median of 5 days (0-14)	1	50 mg	-80° C	MP Fast DNA soil kit	Bead-beating	Not reported	Not reported
Musisi 2022 (37)	Not reported	1	12 gm	-20° C	OM-S, PBS	Not reported	Yes	Not reported
ElKhechine 2009 (38)	Prior to treatment	Not reported	Not reported	Not reported	Tris buffer, PBS, 1% chlorhexidine digluconate	Vortex mixing	Yes	Yes, filtration vial kit

NALC-NaOH: N-acetyl-L-cysteine-sodium hydroxide; PBS: Phosphate buffer solution; NALC-NaOH-Na-citrate: N-acetyl-L-cysteine (NALC)-NaOH-Na-citrate solution (0.5% NALC, 4% NaOH, and 2.94% Na-citrate); OM-S: OMNIgene-sputum reagent