



TANBEAD

TANBead® Nucleic Acid Extraction Kit

Gram Bacteria DNA Extraction (61G)

TANBead® Gram Bacteria DNA Kit is a nucleic acid purification kit based on magnetic bead technology by using with corresponding TANBead® Nucleic Acid Extractor, which can automatically isolate and purify total DNA from Gram-positive, Gram-negative bacteria and other atypical bacteria. The purified DNA can be used with any downstream application employing PCR, qPCR, restriction digestion, PFGE (pulsed-field gel electrophoresis). The kit is intended for use by technicians, physicians, and biologists with well-trained in molecular biological techniques, the techniques of magnetic bead purification and *in vitro* diagnostic procedures.

Feature	Specification
Application	PCR, qPCR, Restriction digestion, PFGE, etc.
Sample	Sputum, bronchoalveolar lavage (BAL), or cultured bacteria
Purification technology	Automation Magnetic beads
Typical yield	≤ 5 µg
Typical A260/A280	≤ 1.9
Operation Time	70~80 mins

Table 1. Evaluate the quantity of extracted DNA

The concentration of DNA and RNA in harvest bacteria was evaluated by Nanodrop 2000.

Kit (Ecoli)	Nanodrop (ng/µl)	Average DNA (ng/µl)	The DNA concentration of 1 ml <i>Ecoli</i>	260/280	260/230
Qiagen-1 (25ml)	175	181.9	7.28 ng/µl	1.82	2.1
Qiagen-2 (25ml)	188.8			1.83	2.02
M61G-1 (1ml)	41.4	39	39 ng/µl	1.99	1.64
M61G-2 (1ml)	37.9			2	1.66
M61G-3 (1ml)	37.7			2	1.61

Table 2. Extraction Quality

The concentration of DNA in various clinical specimens was evaluated by Nanodrop 2000.

Number	Sample ID	Sample Type	A260/ 280 ratio
1	31607492	Sputum	1.56
2	22701485	Sputum	1.50
3	22703532	Sputum	1.29
4	31606560	Sputum	1.46
5	31503612	Bronchoalveolar lavage	1.62
6	30305780	Bronchial brushing	1.96
7	41307225	Liquid culture	1.37
8	41307225	Solid culture	1.83



Sample Description	Test	Instrument	Reference No.	Ordering No. (IVD)
Gram Bacteria DNA Auto Plate	96	SLA 32/ E132	61GA46	301033
Gram Bacteria DNA Auto Tube	96	SLA 32/ E132	61GS46	301034
Gram Bacteria DNA Auto Plate	96	M8/ M4800 series	M61GA46	301138
Gram Bacteria DNA Auto Tube	96	M8/ M4800 series	M61GS46	301139
Gram Bacteria DNA Auto Plate	96	M9600 series	W61GA46	301198
Gram Bacteria DNA Auto Tube	72	M9600 series	W61GS66	301199



Rapid

Highly efficient, convenient and time-saving



Efficacy

Only 500 µL Bacteria suspension is enough for use



Quality

Can be directly applied to downstream detection assays



Diagnosis

The diagnosis of various bacterial infections



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Linkedin

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