Supplementary Materials
Identification of bacterial species isolated from diabetic foot ulcer in Iraq
Turkei and Al-Dulaimi (2024)

Table 1. The Primer used in the study (bacterial primers targeting 16S rRNA gene)

Primer	Sequence	Primer sequence 5'- - 3'	Tm (°C)	GC (%)	Size of Product (bp)
16s RNA	F	AGAGTTTGATCCTGGCTCAG	54.3	50.0	1250
	R	GGTTACCTTGTTACGACTT	49.4	42.1	

Table 2. Reaction components of PCR

Component	25µL (Final volume)
Master mix	12.5µl
Forward primer	(1 µl)
Reverse primer	(1 µl)
DNA	1.5µl
Nuclease free water	9µl

Tabel 3. The optimum condition of detection 16S rRNA gene

No.	Phase	Tm (°C)	Time	No. of cycle
1-	Initial Denaturation	95°C	3 min	1 cycle
2-	Denaturation -2	95°C	30 Sec	30 cycle
3-	Annealing	55°C	30 Sec	
4-	Extension-1	72°C	1min	
5-	Extension -2	72°C	10 min.	1 cycle

Tabel 4. The percentage of bacterial species from DFU

The type of bactria	N	Percentage
Mixed Infection	29	58%
Staphylococcaceae	14	30%
Enterobacteriaceae	8	12%

Table 5. The NCBI-BLAST Homology Sequence identity percentage between local strains IQD-No.1- IQD-No.11 isolates and NCBI-BLAST closed genetic related.

Bacterial isolates	Accession number	Homology sequence identity (%)		
		Identical NCBI isolate	Accession number	Identity (%)
IQD-No.1	PP872157	*Staphylococcus aureus*	JN831368.1	99.65%
IQD-No.2	Not assign	*Staphylococcus haemolyticus*	CP130542.1	99.75%
IQD-No.3	PP872158	*Staphylococcus sciuri*	ON430654.1	99.80%
IQD-No.4	PP872159	*Staphylococcus aureus*	CP130542.1	99.65%
IQD-No.5	Not assign	*Achromobacter*	MW308533.1	99.80%
IQD-No.6	Not assign	*Achromobacter*	OR145518.1	99.65%
IQD-No.7	PP872161	*Wautersiella falsenii*	JX100832.1	99.80%
IQD-No.8	Not assign	*Proteus alimentorum*	ON597431.1	99.80%