

The image features a hand holding a test tube, with a blue background and an orange header. The text is arranged in a clean, modern layout.

RIPSEQ
MIXED

Examples of
direct sequencing
analysis of
poly-microbial
samples

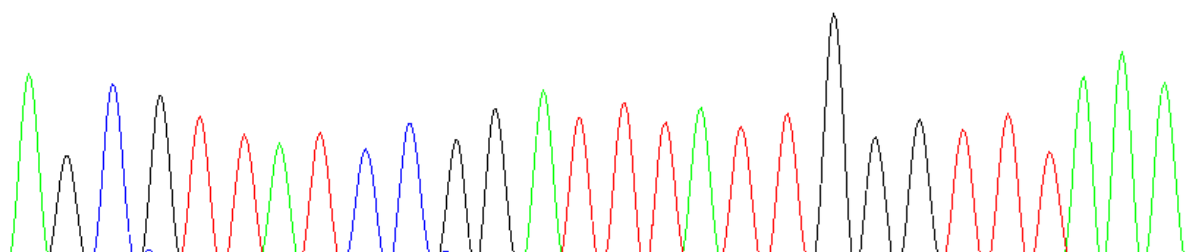
+ **PATHOGENOMIX**

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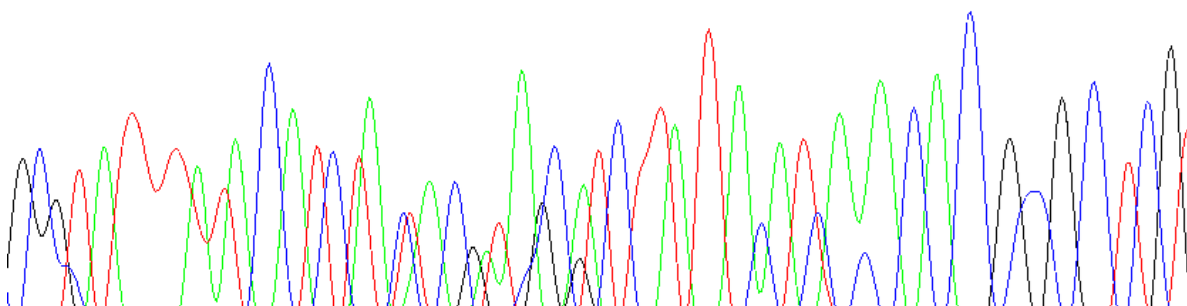
RipSeq® Mixed is an online software tool for rapid bacterial identification, with focus on analyzing mixed clinical samples. Through the use of advanced algorithms, we remove the need for manual isolation and re-cultivation of colonies from poly-microbial samples prior to 16S rDNA sequencing. This makes direct sequencing relevant for a broader range of clinical samples, including abscesses and pleural fluids.

Compared to culture, the possibility to analyze mixed bacterial populations with direct sequencing offers a significant reduction in time to identification, in particular for samples containing slow growing bacteria, or bacteria for which phenotypical identification is not readily available.

More importantly, it provides a powerful diagnostic tool for patients who have received antibiotics prior to sample collection. For this patient group, culture is unreliable and should never be trusted as the sole diagnostic approach. Even if growth is obtained for some species, others can already be dead or too affected by antimicrobials to be cultured.



A nice, pure chromatogram / trace - easy to analyze by many software packages



Mixed, complex chromatogram / trace - **analysis possible by Ripseq Mixed ONLY**

Sample type	Culture	Ripseq Mixed	Antibiotics
Blood culture bottle	Bacteroides fragilis group Clostridium boltae Peptostreptococcus sp.	Bacteroides thetaiotamicron Clostridium boltae Ruminococcus gnavus	Not relevant
Brain abscess	Streptococcus intermedius	Streptococcus intermedius Aggregatibacter aphrophilus	Ceftriaxone 3 days
Pleural fluid	Streptococcus intermedius	Streptococcus intermedius Fusobacterium naviforme Parvimonas micra	Penicillin-G, Gentamicin 1 day
Liver abscess	No growth	Escherichia coli Clostridium perfringens	Cefotaxime 2 weeks
Brain abscess	No growth	Streptococcus intermedius Fusobacterium nucleatum/naviforme Campylobacter gracilis	Cefotaxime, Metronidazole 4 weeks

Example of data using RipSeq Mixed for clinical samples

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