



RIPSEQ
MIXED

Direct sequencing
analysis of
poly-microbial
samples

+ **PATHOGENOMIX**

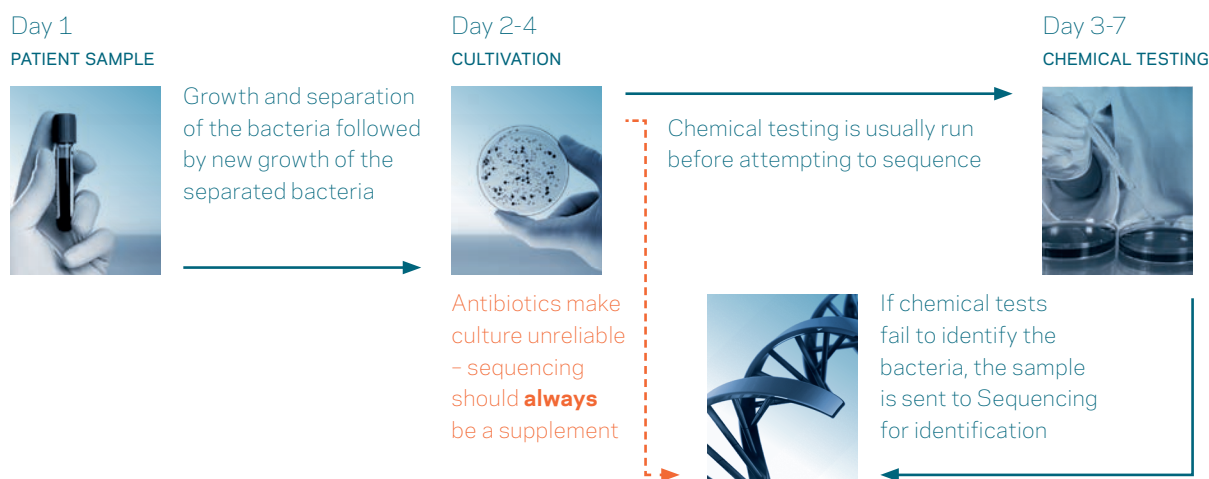
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RipSeq® Mixed is an online software tool for rapid bacterial identification, with focus on analyzing mixed clinical samples. Through the use of advanced algorithms, we remove the need for manual isolation and re-cultivation of colonies from poly-microbial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

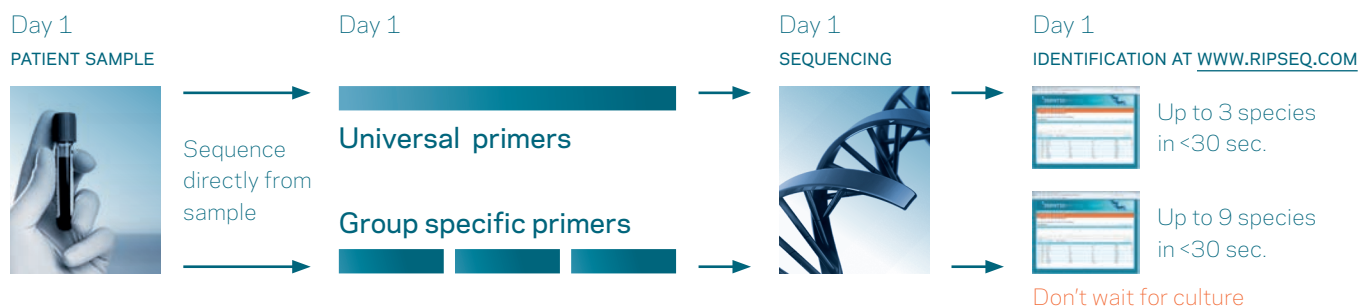
Compared to culture, the possibility to analyze mixed bacterial populations with direct sequencing offers a significant reduction in time to identification, in particular for samples containing slow growing bacteria, or bacteria for which phenotypical identification is not readily available.

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.

Identification time using traditional methods: 2-7 days or more



RipSeq Mixed identifies multiple bacteria in one sample in just: 5-8 hours



REFERENCES

Kommedal O, Lekang K, Langeland N and Wiker H G. 2011. Characterization of polybacterial clinical samples using a set of group-specific broad-range primers targeting the 16S rRNA gene followed by DNA sequencing and RipSeq analysis. *J. Med. Microbiology*. March 2011: **Epub** ahead of print.

Kommedal Ø, Kvello K, Skjåstad R, Langeland N and Wiker H G. 2009. Direct 16S rRNA Gene Sequencing from Clinical Specimens, with Special Focus on Polybacterial Samples and Interpretation of Mixed DNA Chromatograms. *J. Clin. Microbiology*. **47**(11):3562-3568.

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