

## Specificity and Cross-reactivity of Venor®GeM

A cross-reactivity with eukaryotic DNA origin could not be found. The kit also has to any of the phylogenetically related microorganisms, *Clostridium*, *Lactobacillus* and *Streptococcus*. Likewise, the water-born germ *Burgholderia* is not detected. The following species were tested with Venor®GeM. All species were detected with comparable certainty.

Species	Amplicon Size [bp]	Species	Amplicon Size [bp]
<i>Mycoplasma orale</i>	266	<i>Mycoplasma bovis</i>	267
<i>Mycoplasma pneumoniae</i>	273	<i>Mycoplasma cloacale</i>	266
<i>Mycoplasma penetrans</i>	274	<i>Mycoplasma hyosynoviae</i>	265
<i>Mycoplasma pirum</i>	274	<i>Mycoplasma synoviae</i>	266
<i>Acholeplasma laidlawii</i>	273	<i>Mycoplasma salivarium</i>	266
<i>Mycoplasma fermentans</i>	267	<i>Mycoplasma faucium</i>	265
<i>Mycoplasma hyorhinis</i>	268	<i>Mycoplasma hominis</i>	266
<i>Mycoplasma pulmonis</i>	268	<i>Mycoplasma genitalium</i>	273
<i>Mycoplasma falconis</i>	268	<i>Mycoplasma bovigenitalium</i>	267
<i>Mycoplasma arthritidis</i>	267	<i>Mycoplasma caprine</i>	267
<i>Mycoplasma arginini</i>	267	<i>Mycoplasma agalactica</i>	267
<i>Mycoplasma spermatophilum</i>	267	<i>Mycoplasma timone</i>	266
<i>Mycoplasma opalescens</i>	266	<i>Spiroplasma citri</i>	268
<i>Mycoplasma primatum</i>	267		

A large number of *Mycoplasma* sequences have been published. The primers were aligned with the NCBI data base and inspected for homologies within the target region of the 16S rRNA. The table shows all mycoplasma species with relevant sequence homologies and highest presumption of a positive PCR result.

<i>Acholeplasma pleciae</i>	<i>Mycoplasma conjunctivae</i>	<i>Mycoplasma maculosum</i>
<i>Acholeplasma palmae</i>	<i>Mycoplasma cricetuli</i>	<i>Mycoplasma meleagridis</i>
<i>Acholeplasma granularum</i>	<i>Mycoplasma elephantis</i>	<i>Mycoplasma microti</i>
<i>Mycoplasma adleri</i>	<i>Mycoplasma equigenitalium</i>	<i>Mycoplasma moatsii</i>
<i>Mycoplasma agalactiae</i>	<i>Mycoplasma cynos</i>	<i>Mycoplasma mobile</i>
<i>Mycoplasma agassizii</i>	<i>Mycoplasma edwardii</i>	<i>Mycoplasma molare</i>
<i>Mycoplasma alvi</i>	<i>Mycoplasma equirhinis</i>	<i>Mycoplasma mustelae</i>
<i>Mycoplasma alkalescens</i>	<i>Mycoplasma gallinaceum</i>	<i>Mycoplasma oxoniensis</i>
<i>Mycoplasma anseris</i>	<i>Mycoplasma gallinarum</i>	<i>Mycoplasma phocicerebrale</i>
<i>Mycoplasma auris</i>	<i>Mycoplasma gallopavonis</i>	<i>Mycoplasma phocidae</i>
<i>Mycoplasma bovirhinis</i>	<i>Mycoplasma gateae</i>	<i>Mycoplasma phocirhinis</i>
<i>Mycoplasma buccale</i>	<i>Mycoplasma glycyphilum</i>	<i>Mycoplasma ravigulmonis</i>
<i>Mycoplasma buteonis</i>	<i>Mycoplasma gypis</i>	<i>Mycoplasma simbae</i>
<i>Mycoplasma californicum</i>	<i>Mycoplasma hyopharyngis</i>	<i>Mycoplasma sphenisci</i>
<i>Mycoplasma canadense</i>	<i>Mycoplasma iguanae</i>	<i>Mycoplasma spumans</i>
<i>Mycoplasma canimucosale</i>	<i>Mycoplasma indiense</i>	<i>Mycoplasma sturni</i>
<i>Mycoplasma capricolum</i>	<i>Mycoplasma iners</i>	<i>Mycoplasma sualvi</i>
<i>Mycoplasma caviae</i>	<i>Mycoplasma iowae</i>	<i>Mycoplasma subdolum</i>
<i>Mycoplasma citelli</i>	<i>Mycoplasma lagogenitalium</i>	<i>Mycoplasma testudineum</i>
<i>Mycoplasma collis</i>	<i>Mycoplasma leonicaptivi</i>	<i>Mycoplasma turnidae</i>
<i>Mycoplasma columbinasale</i>	<i>Mycoplasma leopharyngis</i>	<i>Mycoplasma verecundum</i>
<i>Mycoplasma columbinum</i>	<i>Mycoplasma lipofaciens</i>	<i>Mycoplasma zalophi</i>
<i>Mycoplasma columborale</i>	<i>Mycoplasma lipophilum</i>	<i>Mycoplasma zalophidermidis</i>