

Target Organism	CentralStar PCR Test Available	Description	Ct Value Ranges		
			HIGH	MODERATE	LOW
<i>Mycoplasma bovis</i>	Complete 16, Contagious 3, Single	Most common <i>Mycoplasma</i> in mastitis cases. Not able to be identified by typical on farm culture.	<23	23-30	30-40
<i>Mycoplasma species</i>	Complete 16	Contagious pathogen spread through milk and blood. Can also cause pneumonia and arthritis.	<25	25-32	32-37
<i>Staphylococcus aureus</i>	Complete 16, Contagious 3, Single	One of the most significant contagious mastitis pathogens, spread easily in the milking parlor	<25	25-30	30-40
<i>Staphylococcus species</i>	Complete 16	Common in dairy environments. Also known as Coagulase Negative Staph (CNS) or Non-aureus Staph (NAS)	<20	20-30	30-33
Staphylococcal beta-lactamase gene	Complete 16	A sub-group of <i>Staphylococcus</i> resistant to treatment with a beta-lactamase products.	<26	26-31	31-36
<i>Streptococcus agalactiae</i>	Complete 16, Contagious 3, Single	Highly contagious, only proliferates within the udder	<26	26-34	34-40
<i>Streptococcus uberis</i>	Complete 16, Single	Found in organic material such as bedding and manure.	<26	26-34	34-39
<i>Streptococcus dysgalactiae</i>	Complete 16	Found in organic material such as bedding and manure.	<25	25-34	34-40
<i>Enterococcus species</i>	Complete 16	Found in organic material such as bedding and manure.	<24	24-30	30-36
<i>Escherichia coli</i>	Complete 16	Found in organic matter such as bedding and manure.	<25	25-35	35-38
<i>Klebsiella species</i>	Complete 16	Found in organic matter such as bedding and manure.	<24	24-30	30-40
<i>Prototheca species</i>	Complete 16, Single	Colorless algae, widespread in the dairy environment in wet or humid areas.	<23	23-32	32-40
<i>Pseudomonas aeruginosa</i>	Complete 16	Found in soil and water on dairy farms, can lead to mild or severe mastitis infections	<26	26-33	33-37
Yeast	Complete 16	Very common in dairy environment, cases suggest a look at certain management practices.	<24	24-32	32-35
<i>Trueperella pyogenes</i>	Complete 16	Commonly found in wounds, more common in warmer months.	<28	28-32	32-40
<i>Corynebacterium bovis</i>	Complete 16	Rare; lives in the teat canal. Can be considered contagious.	<28	28-31	31-36

The information provided is a general description of the pathogens summarized from various university publications. Treatment of any of these pathogens should be done under the advisement of a veterinarian.