

## Product Data Sheet

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<b>Cat#:</b>	AD-143-U
<b>Cat#:</b>	AD-143-B, Biotin labeled
<b>Cat#:</b>	AD-143-F, FITC labeled
<b>Product Description:</b>	Staphylococcus aureus (SA23)
<b>Aptamer Type:</b>	DNA
<b>Sequence:</b>	5'- GCAATGGTACGGTACTTCCGGGCTGGCCAGATCAGACCCCGGATGATCATCCTTGTGAGAACCACAAAAGTGCACGCTACTTTGC TAA-3'; 88-mer
<b>Size</b>	100 nM
<b>Mol. Wt:</b>	27104.61 g/mole
<b>Purity:</b>	>95%
<b>Affinity:</b>	61.5 nM (reported value)
<b>Comments:</b>	n/a
<b>Notes:</b>	ssDNA aptamers specific to S. aureus as target was obtained and Streptococcus and S. epidermidis as counter targets. Five of the 11 aptamers demonstrated high specificity and affinity to S. aureus individually. The combination of these 5 aptamers probed single S. aureus in pyogenic fluids is implemented here.
<b>References:</b>	CAO et al. "Combining use of a panel of ssDNA aptamers in the detection of Staphylococcus aureus." Nucleic Acids Research, 37(2009): 1-8

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