

Product Data Sheet

Cat#: AD-134-U

Cat#: AD-134-B, Biotin labeled

Cat#: AD-134-F, FITC labeled

Product Description: PCB72 (Aptamer 9.3)

Aptamer Type: DNA

Sequence: 5'-AGC AGC ACA GAG GTC AGA TG CAC TCG GAC CCC ATT CTC CTT CCA TCC CTC ATC CGT CCA C CCT ATG CGT GCT ACC GTG AA -3'; 80-mer

Size 100 nM

Mol. Wt: 24336.74 g/mole

Purity: >95%

Affinity: 66 nM (reported value)

Comments: n/a

Notes: PCB-binding DNA aptamers were developed using PCB72 and PCB106 as targets for aptamer selection. PCBs are organic pollutants that are toxic and cause cancer. This technique is affordable, sensitive, and high-throughput assay for the detection of PCBs in food and environmental samples and offers a promising alternative to existing methods of PCB quantitation.

References: Mehta et al. "Selection and characterization of PCB-binding DNA aptamers." Analytical Chemistry, DOI: 10.1021/ac202960.

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India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444

Email: customerservice@lifetechindia.com Website: www.lifetechindia.com