"Development of Ultrasensitive DNA Aptamer-Based Assays for Natural and Recombinant Human Growth Hormone in Serum and Urine"

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Results and Conclusions

Operational Technologies Corporation has conducted a successful pilot study for WADA in which 8 aptamers were identified that appear to distinguish recombinant from natural hGH.

The rhGH used in these studies is not a pharmaceutical grade, but served to provide proof-of-concept suggesting that pharmaceutical targets such as Genotropin® could be detected by an aptamer-based ELISA-like plate assay. The aptamer assay may also be embodied in various formats including presumptive lateral flow test strips or dipsticks, fluorescence, chemiluminescence or ECL or other types of assays