

Introduction of an Expanded STR Multiplex for New Global Standards

Douglas Storts

Promega Corporation, Madison, Wisconsin, USA

As DNA databases continue to grow and international cooperation increases, the need for a common set of markers is required to facilitate data sharing and to reduce adventitious matches. Promega's PowerPlex® Fusion System provides all of the materials needed for co-amplification and five-color fluorescent detection of 24 loci (23 STR loci and Amelogenin), including the CODIS core loci and the European Standard Set (ESS) loci. The PowerPlex® Fusion System will enable increased discriminatory power and data sharing possibilities by means of the incorporation of common and informative loci used throughout the world. In addition, the PowerPlex® Fusion System builds upon recent advances in Promega STR chemistries, including improved inhibitor resistance, faster cycling time, and direct amplification from a variety of common sample types, resulting in more meaningful analyses for both casework and databasing efforts.