qPCR SuperMixes, PerfeCTa[®] Quanta Biosciences



PerfeCTa[®] qPCR SuperMixes are 2X concentrated, ready to use reaction cocktails containing all components except primers, probe and template for qPCR. These SuperMixes include buffers and stabilisers optimised for maximum PCR efficiency, reproducibility and sensitivity with TaqMan[®] and TaqMan[®] MGB probe chemistries. The enhanced specificity of PerfeCTa[®] qPCR SuperMixes suppresses cross reactivity between homologous sequences, improving detection and discrimination in SNP applications. A key component is AccuStart[™] Taq DNA polymerase that contains monoclonal antibodies, which bind and inactivate the polymerase prior to the initial PCR denaturation step. Upon heat inactivation (2 minutes at 95 °C) the antibodies irreversibly denature releasing fully active, unmodified Taq DNA polymerase. This promotes specific and efficient primer extension with the convenience of room temperature reaction assembly. Perfecta[®] qPCR SuperMixes are formulated with and without reference dye to provide compatibility with specific Real-Time qPCR instruments. UNG versions include uracil DNA glycosylase.

• Broad dynamic range for greater reliability

• Superior antibody mediated hot start enables higher specificity leading to more accurate quantification

Sample kits are available, please enquire.

Description	Pk	Cat. No.
PerfeCTa® qPCR SuperMixes without passive reference dye		
SuperMix without reference dye, 100 reactions	1 KIT	733-1183
SuperMix without reference dye, 500 reactions	1 KIT	733-1184
SuperMix without reference dye, 2000 reactions	1 KIT	733-1185
PerfeCTa® qPCR SuperMixes with low ROX reference dye		
SuperMix with low ROX, 100 reactions	1 KIT	733-1191
SuperMix with low ROX, 500 reactions	1 KIT	733-1192
SuperMix with low ROX, 2000 reactions	1 KIT	733-1193
PerfeCTa® qPCR SuperMixes with ROX reference dye		
SuperMix with ROX, 100 reactions	1 KIT	733-1187
SuperMix with ROX, 500 reactions	1 KIT	733-1188
SuperMix with ROX, 2000 reactions	1 KIT	733-1189
PerfeCTa® qPCR SuperMixes with UNG		
SuperMix with UNG, 100 reactions	1 KIT	733-1275
SuperMix with UNG, 500 reactions	1 KIT	733-1276
SuperMix with UNG, 2000 reactions	1 KIT	733-1277
PerfeCTa® qPCR SuperMixes with UNG and low ROX		
SuperMix with UNG and low ROX, 100 reactions	1 KIT	733-1283
SuperMix with UNG and low ROX, 500 reactions	1 KIT	733-1284
SuperMix with UNG and low ROX, 2000 reactions	1 KIT	733-1285
PerfeCTa® qPCR SuperMixes with UNG and ROX		
SuperMix with UNG and ROX, 100 reactions	1 KIT	733-1279
SuperMix with UNG and ROX, 500 reactions	1 KIT	733-1280
SuperMix with UNG and ROX, 2000 reactions	1 KIT	733-1281

qPCR SuperMix, PerfeCTa® MultiPlex

Quanta Biosciences

This SuperMix is a 2X concentrated, ready to use reaction cocktail for Real-Time qPCR that contains all components, except primers, probes, and templates. The system transcends multiplex limitations of conventional PCR master mixes, enabling unbiased amplification of up to five target sequences in a single tube. Suppression of low copy amplicons by high copy reference targets in the amplification is a common problem in multiplex PCR. This can skew, or mask the apparent representation and quantification of low copy target sequences. PerfeCTa[®] MultiPlex qPCR SuperMix delivers dynamic range and sensitivity to multiplexed qPCR that is comparable to that for singleplex qPCR probe assays without the need for limiting or variable primer concentrations.

A key component of this supermix is AccuStartTM *Taq* DNA polymerase with monoclonal antibodies that bind to the polymerase and keep it inactive prior to the initial PCR denaturation step. Upon heat activation (2 minutes at 95 °C), the antibodies denature irreversibly, releasing fully active, unmodified *Taq* DNA polymerase. This enables specific and efficient primer extension with the convenience of room temperature reaction assembly.

Description	Pk	Cat. No.
qPCR SuperMix, 50 reactions	50 Assays	733-1272
qPCR SuperMix, 200 reactions	200 Assays	733-1273
qPCR SuperMix, 1000 reactions	1.000 Assays	733-2074

