Quantitative Real-Time PCR (qPCR) is commonly applied to assess nucleic acid quantities. Its design & set up, optimization and potential trouble-shooting however, can be time-consuming, expensive and simply unnecessary! Learn - in this short tutorial - how to set-up the most promising assay.

**Sample to Analyze**

Is **SINGLEPLEX** sufficient?

- **YES**
  - qPCR GreenMaster / qPCR SybrMaster
    - Based on **intercalator dyes** (Eva Green™, SYBR Green):
      - sequence independent determination of DNA amplification
      - Easy to handle
      - Melt curve analysis (HRM* with EvaGreen)
      - cost efficient detection method

- **NO**
  - Higher specificity required!

Is **DUPLEX** sufficient?

- **YES**
  - qPCR ProbesMaster
    - Based on **dual labeled probes** (e.g. TaqMan):
      - Highly specific
      - Duplex capable (e.g. internal control)

- **NO**
  - Additional assay optimization required: Review primer design, primer concentrations, annealing temperature and sample preparation!

**qPCR MultiplexMaster**

Simultaneous detection of target sequences:

- Enhanced robustness
- Minimal sample & reagent consumption
- multiplex capable

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*HRM = High-resolution DNA melting curve analysis

**qPCR-mixes: Which one to use?**