

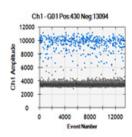
User Manual

Digital Duplex PCR dChiTu

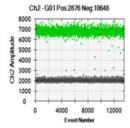
Principle

This method describes a routine procedure for the quantitative detection of chicken and turkey DNA. Using the ratio of the concentrations of positive droplets (copies/ul) together with a conversion factor, the weight of the sample can be determined in percent by weight.

Chicken FAM



Turkey



Contents and Storage

4 tubes of primer mix, lyophilized, for 4x24 reactions. Shipped at ambient temperature, store at -20°C

Supplied on demand: EXCEL table for results calculation

Reagents to be Supplied by

QX200 ddPCR Supermix for Probes 5ml (Cat No. 186-3024) and other consumables for ddPCR with the QX200 system.

Protocol

- 1. Add 153 µl PCR grade water per tube of primer-mix, vortex vigorously and incubate for 5 min at 60°C (store solution at 4°C, stable for 1 week).
- 2. Add 282 µl Supermix for probes (2x) and mix well.

Yields 435 µl ready-to-use Mastermix

- 3. Mix 17 µl ready-to-use Mastermix with 5 µl sample solution in an appropriate PCR reaction vessel. Recommended amount of DNA: 0.6 ng, measured by absorbance and/or 1:32 diluted isolated
- 4. Use the following thermal cycling profile:
- 1 10 min, 95°C
- 2 30 s, 95°C
- 3 60 s, 55°C
- 4 Repeat steps 2 to 3 50 times in total
- 5 10 min, 98°C
- 6 Hold, 4°C
- 6. Set the Probes parameter for the droplet reading.
- 7. Analyse the results with QuantaSoft Software. To obtain quantifiable results the Droplets/ul value for the total amount of DNA (the lowest Threshold) should be over 100 cp/µl. The value of the empty droplets should be under 100cp/μl.

Contact

Kantonales Labor Zürich rene.koeppel@klzh.ch

Further Information

https://www.microsynth.com/food-testing-assays.html

Microsynth AG Schützenstrasse 15 CH-9436 Balgach Telefon +41 71 722 83 33 Fax +41 71 722 87 58 www.microsynth.com