

The QuEChERS Tablet

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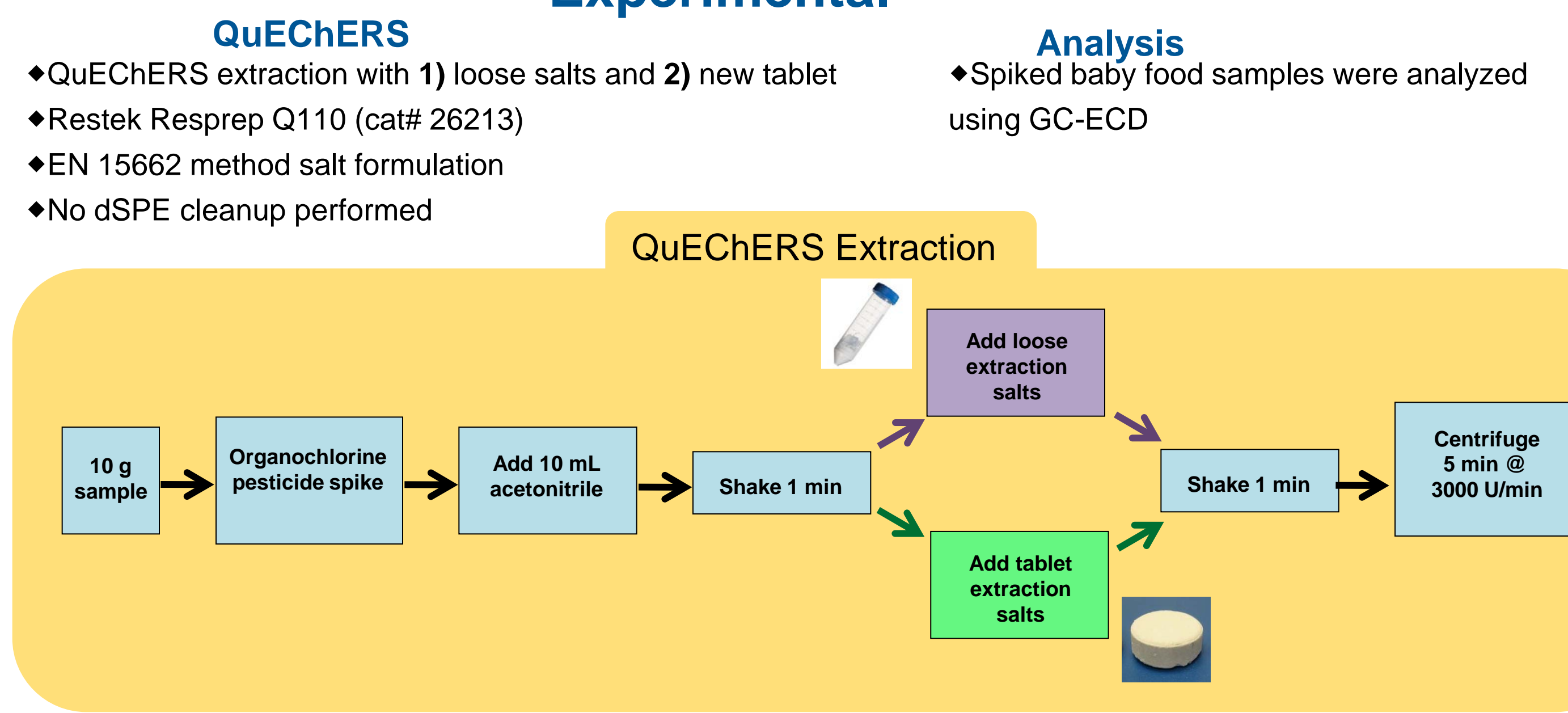
Background

- ◆ QuEChERS is "Quick Easy Cheap Effective Rugged and Safe"
- ◆ QuEChERS sample preparation approach is by now well used
- ◆ Commercial vendors provide pre-packaged extraction salts and dispersive solid phase extraction sorbents
- ◆ Extraction salts, in some cases, come in the 50 mL centrifuge tube
- ◆ This is **inconvenient** for methods that specify an acetonitrile extraction *prior* to salt addition

Scope

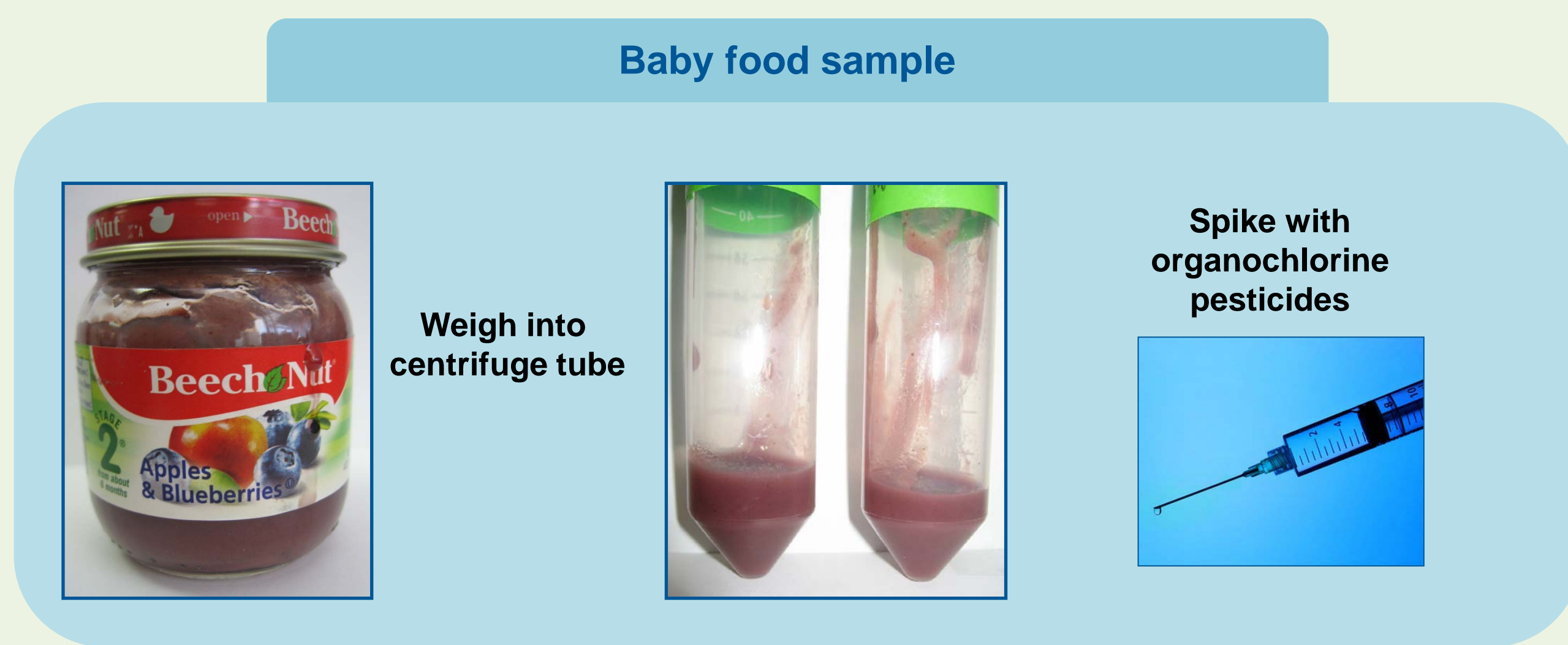
- ◆ Explore "tablets" for QuEChERS extraction salts
- ◆ Compare ease of use to traditional loose salts
- ◆ Evaluate decreased risk of spillage and/or leakage
- ◆ Performance evaluation using fruit baby food and organochlorine pesticides
- ◆ This presentation will focus on initial results achieved for QuEChERS extractions with tablets.

Experimental

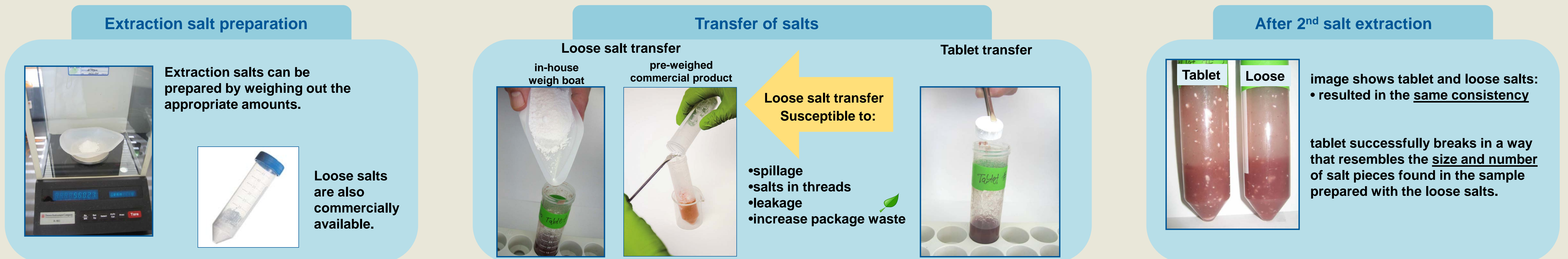


This necessitates a transfer of salts, from one tube to another, increasing the risk of leakage due to salts in cap threads, and possibly increasing plastic waste.

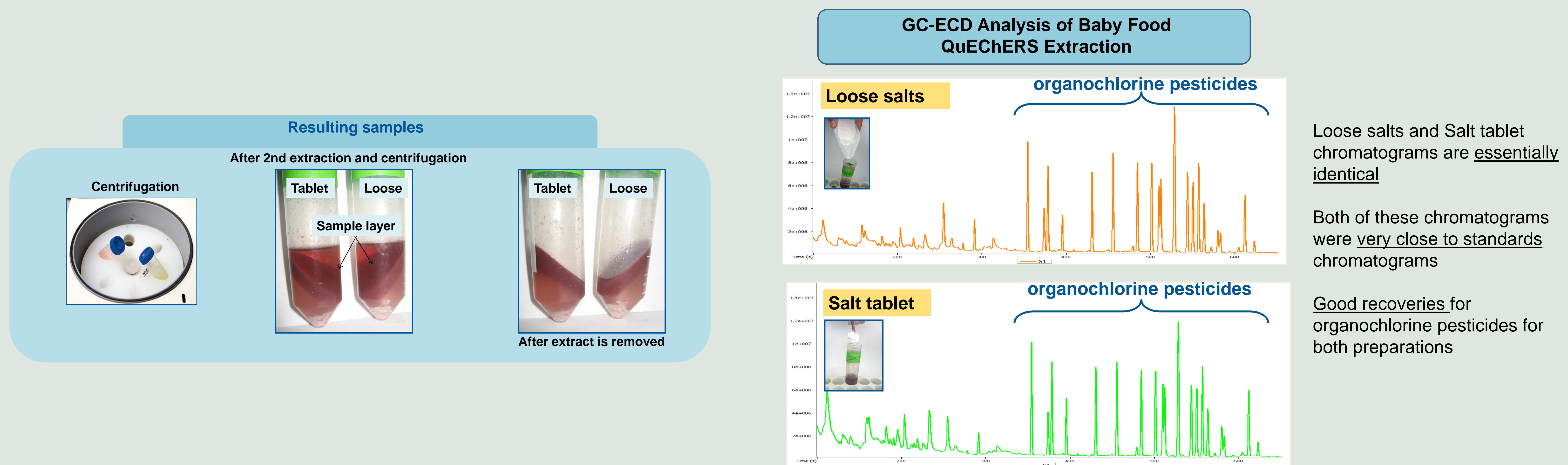
Acetonitrile extraction



Salt extraction



Resulting samples and Analysis



Benefits of QuEChERS Tablets

Equivalent performance with convenience and higher throughput

Drop in and shake
Reduces chance for leaks and sample loss

Possibility of less packaging