





```
note:
timestamp: 2012-10-03 11:13:12.10 -7
intent: "test epibio quickextract kit with fish tissue"
project: "genelaser_test1"
```

Testing out genomic purification using EpiBio QuickExtract kit. Trying 6 samples to start:

First protocol! woot. This content is still part of the first block.

Above see sample data stored inline. Should this be the canonical place for it? Or should it reside in a more central json file and be included by reference? Which is less likely for users to screw up...?

[img:"data/2012-10-03_epibiotest1_sushi_samples.jpg"]

op[1]:

timestamp: 2012-10-03 11:22:01.33 -7
protocol: Epibio-quickextract-1@ceba48e

samples: epibiotest1

qc: op[2]

A new note block! This one is associated with the Epibio-quickextract-1 operation block above. This is where we would write any notes about how the protocol went.

op[2]:

timestamp: 2012-10-03 11:40:12.53 -7

protocol: nanodrop_OD-260-280

in: op[1]

out: "data/qc/2012-10-03.csv"

Another Note (or is it operation?).

[table:"data/qc/2012-10-03.csv"] ← viewer renders inline

Quickextract seems to work; deviation in gDNA concentration might be a problem. Their whitepaper suggests a range of 7 - 25 ng / uL when it's working properly. [ref:2012Weight].

Also see [doi:10.1007/978-1-61779-591-6_6].

```
Notebook files have two kinds of top-level metadata blocks: 
<note>. <note>s are associated with the closest preceding <operation>. <note>s
can contain data tables, sample tables, protocol definitions, etc.,
represented inline or by reference via json or yaml blocks.
<note>s begin with `timestamp: <isodate>` metadata block. Additional metadata is
inherited from the project.json file
render samples as table view;
TODO how is it automagically stored in samples/2012-10-03_genelaser-test1.csv?
organize content by experiment? i.e.
  experiments/
  2012-10-03_genelaser-test1/
   ---- index.md
   ---- samples.csv
  ---- images/
     — data∕
   ---- notes/
  — 2012-10-06 another-test1/
  ---- index.md
  ——— data/
  —— notes/
  index.md
  private/
  project.json
  protocols/
  plugins/
  references/
  -- references.bib
  — 2010 weight DNA Barcoding Fishes.pdf
explicit in/out tags (no typerange tho) in <op> definition
op:
  _id: 1
  timestamp: 2012-10-03 11:22:01.33 -7
  protocol: Epibio-quickextract-1@ceba48e
  in: cells.tissue # <-- implicit</pre>
  out: DNA.genomic # <-- implicit</pre>
  samples: [epibiotest1, epibiotest1_rep2]
  qc: op[2]
```

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