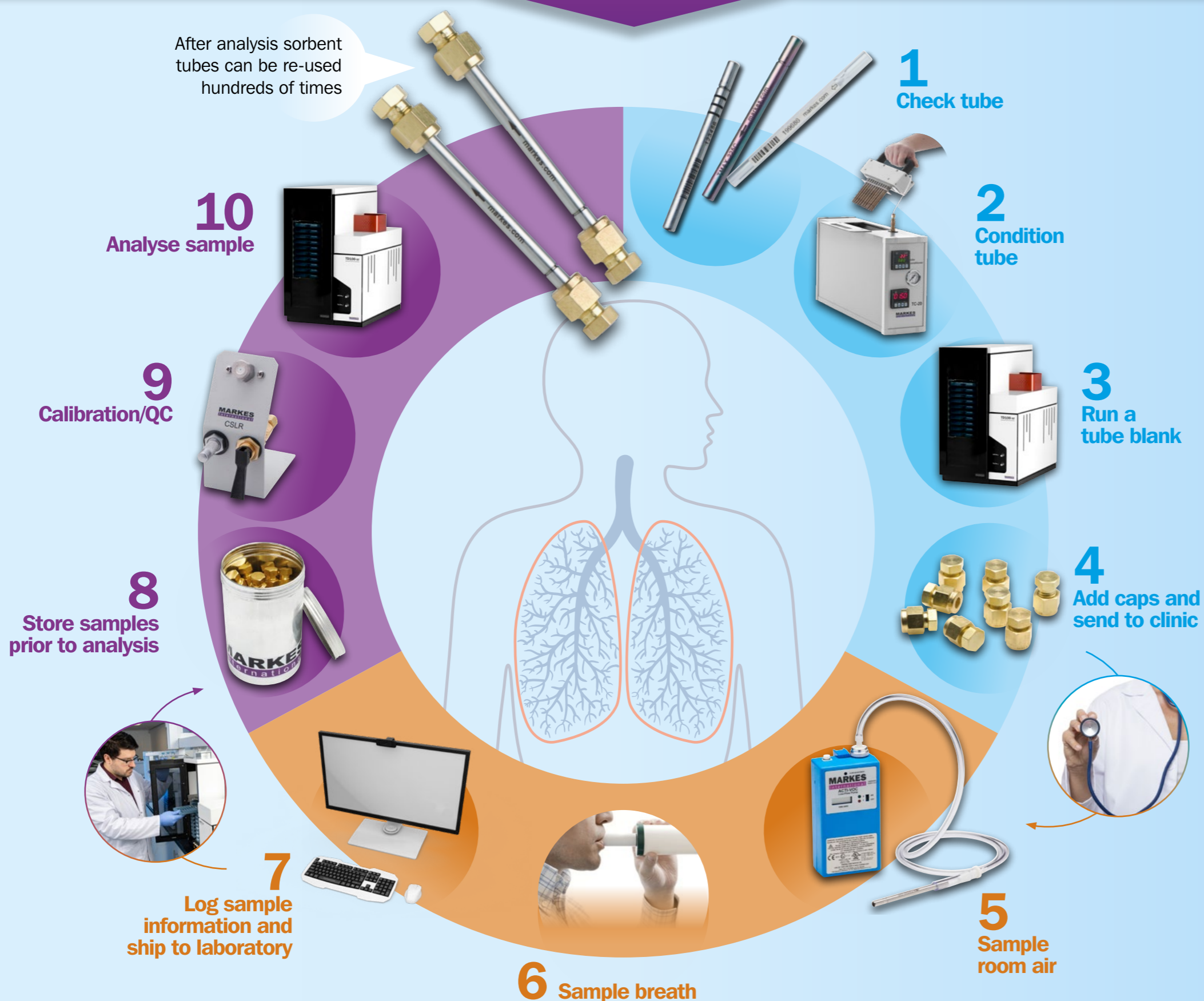


THE CLINICAL BREATH ANALYSIS CYCLE IN 10 STEPS



Stages 1-4

Preparing sample tubes for sending to the clinic

- 1 Check the age and condition of the sorbent tubes
- 2 Condition tubes to ensure they are blank
- 3 Run a tube to confirm cleanliness. Sampling internal standard can be added automatically at this stage
- 4 Cap and pack sorbent tubes for shipment

Stages 5-7

In clinic

- 5 Take a sample of the room air
- 6 Take a breath sample from the patient
- 7 Log the breath sample and background air sample. Re-cap for shipment

Stages 8-10

Sample analysis

- 8 Dry purge the samples to remove water and store prior to analysis
- 9 Run calibration and QC standards to enable quantitation and check the system performance
- 10 Analyse samples via TD-GC-MS:
 - i Stringent leak testing automated
 - ii Internal standard added
 - iii Optional re-collection of the sample split for archiving