

SAM-Spec-Tab

Capsule net weight and dosage
real-time analyzer

Provide non-invasive measurements:

Filled weight
into capsule

API dosage
and residual
moisture

Contaminant
detection

Dosage
uniformity

Tablet
hardness



Measure up



The simplicity and versatility of capsules make them one of the preferred candidates for oral drug delivery for products such as powders, granules, pellets, liquids and semi-liquids. FDA requirements for dosage uniformity include accurate evaluation of the net weight and API concentration.

But how to avoid destructive and time-consuming techniques ?

Real-time and in-line analysis with SAM-Spec-Tab will provide financial performance due to fast process development, significant reduction of laboratory analysis, fast analysis of critical parameters, reduction of production time and higher safety.

Packaging machine inspection



- Fast analysis of critical parameters
- Automatic detection of capsule and empty spot
- In-line (packaging or filling machine)
- Works with aluminum or plastic foil
- Fast measurement (10 ms for 100 measurements)
- Machine communication capabilities
- Easy integration & maintenance

In Process Quality control System (transportable)



- Fast analysis of critical parameters
- Identify critical instability on batch to recorrect production
- Understand filling process at large scale for final scale-up study
- Fast production machine acceptance campaign
- Investigate production efficiency and stability on different production sites (performance uniformization)



SAM-Spec-Tab at a glance

- SAM-Spec® is a patented NIR-SRS optical technology
- Net weight, typical error 3-5 %.
- API concentration typical error 2-4%
- Moisture analysis typical error 0.2%
- Detection of contaminant and dosage uniformity in the capsule
- Fast analysis, up to 800,000 capsules/hr.
- Compatibility with chemometric software packages including Camo Process Pulse II.

Example of weight accuracy

Capsule capacity	SAM-Spec-Tab accuracy
Standard 100-550mg	30mg
Standard 3-80mg	0.3mg

21CFR Part 11 compliance
Full IQ/OQ/PQ support
GMP compliance

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