Live Webinar
Tuesday, March 17, 2015
Berlin 4:00 pm | San Francisco 8:00 am

Using DIN Values for Sample Prep QC in DNA Methylation Studies. Learn more about the impact of initial sample quality and how to use the new DNA Integrity number (DIN) to get the most from your data.

Join Emily Putnam, Epigenetic Services Assistant Manager, Zymo Research:
www.agilent.com/genomics/ArtOrScience

Genomic DNA Integrity Assessment
Art or Science?
Base your genomic DNA sample QC on science not personal interpretation

The DNA Integrity Number (DIN) is a new feature of the Genomic DNA ScreenTape assay. DIN provides a numerical assessment to help scientists estimate the integrity of genomic DNA (gDNA) samples in Next Generation Sequencing (NGS) and Comparative Genomic Hybridization (aCGH) workflows. This add-on functionality to the Agilent TapeStation Analysis Software automatically assigns an integrity number from 1 – highly degraded to 10 – highly intact for gDNA samples.

Simplify and standardize your workflow with DIN
• Automated numerical software assessment of sample integrity
• Independent of sample concentration, and analyst
• Full range of eukaryotic samples from fully degraded to intact gDNA
• Easy result interpretation
• Ensures repeatability of experiments

TapeStation Analysis Software version A.01.05 for

Alert icons
Alert icons are visible in gel image and sample table. Different icons for warnings (yellow) vs. errors (red).

DIN
DIN is presented below gel image and as a column in the sample table.

Observations
Warnings and errors are displayed in the observations column of the result table.
Purified Genomic DNA
Material from varying sources (blood, tissue, semen, saliva, hair, skin, FFPE etc...) are processed to purify the genomic DNA content.

Sample Preparation
Only 1 µL of the eluted gDNA needs to be mixed with 10 µL

ScreenTape Loading
ScreenTape consumable and samples are loaded into the Agilent 2200 TapeStation system without any need for

Digital Results
- Gel image
- Electropherogram
- Quantification
- Size determination
- DNA Integrity Number (DIN)

The TapeStation Analysis Software provides digital data in approx. 2 minutes per sample. In order to obtain DIN, no changes in protocol are required and no additional steps are

Automated assignment of an integrity number from 1 to 10 for highly degraded or highly intact DNA samples.