

Liquid Scintillation Counter - Applications Note

Using the Priostat Assay in QuantaSmart Software

The following is a guide on how to use the Priostat assay on a Tri-Carb liquid scintillation counter with QuantaSmart software.

Priostat Assay:

The Priostat is an assay that can be used to count priority samples whilst a normal count run is in progress on a liquid scintillation counter.

Normal counting situation:

A normal counting situation is when a standard assay is counting and the samples are part way through sample analysis.

Note: if the LSC is not in use, a standard assay can be used for counting

Using the Priostat assay:

The LSC will be part way through a normal sample analysis. In order to analyse the priority samples using the Priostat assay, complete the following:

- In the Run tab, select Group Priostat
- A popup screen requesting Assay information appears
- Select the required Assay

Note: only an existing assay can be selected. If a different assay is required, create one through the normal way i.e. "File – New Assay" etc.

- The Data Path screen for the Assay now appears
- Fill in the User ID and Additional Header if required and click OK
- The LSC auto-ejects the sample being counted and moves sample around until the Priostat assay flag is found
- The samples in the Priostat assay cassette are then counted
- The sample cassettes then move around the sample table and return to the sample that was being counted prior to the auto-eject (this sample is recounted as the previous count will not have completed)
- Normal counting resumes until the end of all active protocol or until another Priostat assay is created

Notes:

- Only 1 cassette can be counted in a Priostat assay
- It is possible to run more than 1 Priostat assay during a normal run; however they must be treated as separate cassette runs
- There is a lot of mechanical movement during protocol interruption and relocation. This is normal; therefore do not worry