

## Preparing Calibration Samples / Xevo® TQ-S

This procedure describes how to prepare the IntelliStart resolution sample from the stock solution supplied in the Waters Xevo TQ-S sample kit (p/n 700005471).

**NOTE:** Refer to the Xevo TQ-S ACQUITY UPLC System Installation Checklist (p/n 715002460) and the Xevo TQ-S Installation Manual (p/n 715002461) for instructions on how to use the samples.

### Parts required

Table 1: Parts required

Part number	Description	Quantity
700005471	MS Ref Stds: Calibration sample Xevo TQ-S	1

Table 2: MS Ref Stds: Calibration sample Xevo TQ-S 700005471 components

Component	Quantity	Analyte	Description
700005471-1	1 x 30 mL	Ortho-phosphoric acid	Calibration solution
700005471-2	1 x 30 mL	Sodium iodide Cesium iodide Methyl sulfate, sodium salt	IntelliStart resolution solution x 20

### Tools/materials required

All glassware must be clean and dry prior to use. Use appropriate pipettes and tips during the sample dilution steps. Prepare all solvents and solvent mixtures quantitatively. Use solvents that are LC/MS-grade or better.

## Procedure

Perform the following procedures to prepare test samples for Xevo TQ-S instruments.

***WARNING:*** *Health and Safety policies of Waters and the laboratory in use must be adhered to.*

***CAUTION:*** *Take care when opening the vials not to spill the sample. Prepare all dilutions and samples in glass containers only.*

## IntelliStart resolution solution x 20

The target solution contains the component concentrations shown in Table 3.

Table 3: System test sample components

Component	Concentration
Sodium iodide	100 ng/μL
Cesium iodide	2.5 ng/μL
Methyl sulfate, sodium salt	1 ng/μL

1. Pipette 1 mL of IntelliStart resolution solution x 20 into a 20-mL volumetric flask and dilute to 20 mL with 50:50 IPA:water.
2. Stopper and invert the flask several times to fully mix.
3. Label the flask as "IntelliStart resolution solution".

## Calibration solution

1. Use the solution (p/n 700005471-1) straight from the bottle.