**ABSTRACT**

Indirect comparison of the MassTrak reagent kit for LC/MS/MS analysis of whole blood tacrolimus with three established immunoassays.

**INTRODUCTION**

The method comparison test protocol used for establishing the performance of the MassTrak Immunoassays kit was designed to compare results obtained from patient samples using the MassTrak method with results obtained for the same samples using other established immunoassays. This decision was based on the CLSI proficiency testing protocols, EP5-A2 (NCCLS, 1994) and EP5-A22 (NCCLS, 1996). The method comparison test protocol used for establishing the performance of the MassTrak kit was based on the recommendation of the CLSI document EP5-A22, recommendation EP15-A22 to derive such a comparison.

**RESULTS**

Means for the same sample sets analysed by the three immunoassay groups, as well as the long-term comparative assay performance inferences made in this way provide a more accurate estimate than a single performance characteristic of an assay and the IPT scheme showing statistical analysis of the data.

**CONCLUSION**

The indirect comparison of MassTrak and immunoassay results revealed that the MassTrak results are comparable to the results for all three immunoassays when looking at the spiked samples.

**REFERENCES**

4. Dade EMIT Abbott (N=200) VProlab Emitters. 5. The University of Texas Medical Center at Houston, TX.
6. University of North Carolina Hospitals, Chapel Hill, NC.
7. TO DOWNLOAD A COPY OF THIS POSTER, VISIT WWW.WATERS.COM/POSTERS

**BACKGROUND**

Indirect immunoassay data from a single laboratory as any laboratory bias is minimised, and the comparisons for patient pool samples show a larger presence of the tacrolimus metabolites.

**METHODS**

Using the IPT reports described above, it is also possible to compare the test series of IPT samples against the MassTrak™ LC/MS/MS and Abbott IMx Tacrolimus assays for the same series of IPT samples. A statistical comparison (e.g. linear regression analysis) of MassTrak™ LC/MS/MS and immunoassays can therefore be made.