Assay Development and Inhibitor Characterization of Protein Kinases Using a Lab Chip 3000
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**Introduction**
Protein kinases represent potential drug targets across several therapeutic areas. The current capabilities of Caliper technology allow reactions to be performed in a throughput than the traditional assays. Progress curves in a quick and timely manner as well as provide a higher throughput compared to traditional assays.

**Mechanism of Action Studies for the Inhibition of a Ser/Thr Kinase by PD0305939**

**Steady-State Characterization of a Ser/Thr Kinase**

**Early Assay Development for a Lipid Kinase**

**Off-chip Mobility Shift Assay**

**Materials and Methods**
Kinase reactions were typically performed in microtiter plates and analyzed using a Fluoroskan Ascent FL plate reader (Thermo Fisher Scientific). Reaction conditions, chemical compounds, and their concentrations are provided in the figure legends for specific experimental conditions.

**Limitations to Consider**
- High quality of data generated for the identification or the development of an expression plasma and product.
- Most assay systems were used for assay development, small changes in screening, preincubation inhibition, and activation were not considered.
- The current capabilities of Caliper technology allow reactions to be performed in a higher throughput than the traditional assays.
- Progress curves in a quick and timely manner as well as provide a higher throughput compared to traditional assays.

**Summary**
- Assay systems were used for assay development, small changes in screening, preincubation inhibition, and activation were not considered.
- The current capabilities of Caliper technology allow reactions to be performed in a higher throughput than the traditional assays.
- Progress curves in a quick and timely manner as well as provide a higher throughput compared to traditional assays.