**Introduction**

Bergenin and chlorogenic acid are both polyphenolic compounds commonly found in plants and used for Traditional Chinese Medicine (TCM) and in many other herbal medicines. Chlorogenic acid can easily be found in plant food including vegetables, fruits, and coffee beans. Bergenin can be extracted from Bergenia. 

**Sample Preparation Method**

Captiva ND™-96 well plate is used for this study due to its simplicity in its operation during the sample preparation, especially with biological samples. Captiva ND™-96 well plate is extremely useful for high-throughput laboratories since they can virtually be employed in non-drip feature for complete in-well protein precipitations.

**Experimental**

Captiva ND™-96 well plate is analyze independent and easy to use lipid removing sample preparation plate.

**Results and Discussion**

**LC/MS Chromatograms**

**Chlorogenic acid**

- R2 = 0.9997
- Fig 2. LC/MS chromatogram of spiked plasma sample at 5 ng/mL processed by Captiva ND™

**Bergenin**

- R2 = 0.9983
- Fig 2. LC/MS chromatogram of spiked plasma sample at 5 ng/mL processed by Captiva ND™

**Calibration Curves**

- Chlorogenic acid: R2 = 0.9997
- Bergenin: R2 = 0.9983

**Range**

- Chlorogenic acid: 5 – 500 ng/mL
- Bergenin: 0.5 – 500 ng/mL

**LOQ**

- Chlorogenic acid: 5 ng/mL
- Bergenin: 0.5 ng/mL

**References**


**Conclussions**

- Superior calibration curves were achieved for chlorogenic acid and bergenin with R2 values of 0.9997 and 0.9983, respectively.
- Complete automation can be implemented with liquid handler.
- No time-consuming evaporation and reconstitution were needed.