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| POMONA COLLEGE | Environmental Analysis Teaching and Research Laboratory | Date: 8/11/2016 | Number: 15 |
| | Standard Operating Procedure | Title: MySpin12 Microcentrifuge | |
| | Approved By: Los Huertos | Revision Date: August 20, 2016 | |

## 1. Scope and Application

**1.1** The MySpin12 is a microcentrifuge designed to spin down centrifuges XX mL centrifuge tubes.

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## 2. Health and Safety

**2.1** Improper use can result in

**2.2** Spillage left unclean may pose a threat of the substance is hazardous and most important for unsuspecting individuals.

## 3. Personnel & Training Responsibilities

**3.1** Reseachers using this SOP should be trained for the following SOPs:

- SOP01 Laboratory Safety

When the training is completed, the training documentation form should be completed.

## 4. Required Materials

**MySpin 12 (Cat #)**

**PPE**

## 5. Estimated Time

**5.1** The MySpin12 takes less than a minute to use, but is not designed for constant and high intensity use.

## 6. Procedure

**6.1** Prepare ...

**6.2**

The relative centifugal force (RCF) or G-force can be calculated using the following equation

$$RCF = 1.12R \cdot (RPM/1000)^2 \tag{1}$$

where R is the rotor radius, which is 55mm for the MySpin12.

Table 1: RPM to G-Force Table Conversion Reference

| RPM | RCF |
|---|---|
| 1000 | 62.7 |
| 3000 | 564 |
| 5000 | 1570 |
| 7000 | 3070 |
| 9000 | 5080 |
| 11000 | 7590 |
| 12500 | 9800 |

## 7. References

**7.1** APHA, AWWA. WEF. (2012) Standard Methods for examination of water and wastewater. 22nd American Public Health Association (Eds.). Washington. 1360 pp. (2014).