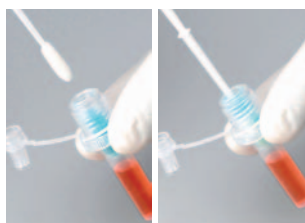


# SAMPLE PREPARATION SYSTEMS

## DROPPERS

ONE OR TWO CHAMBERS TUBES



C-Series  
(press-on cap)



J-Series  
(screw cap)

Copan Flock Technologies offers a complete array of **custom engineered simple, compact, self contained sample preparation systems for Rapid Point of Collection Assays**. Samples are often collected in situations where the simplicity of sample preparation is of paramount importance to perform quick accurate rapid tests. Testing can be in a point-of-care (POC) scenario at a patient's bedside or at a roadside investigation when drugs of abuse are suspected.

CFT's Sample Preparation Systems are preassembled, ready to use devices for sample preparation at the point of collection. CFT's sample processing tubes are made of soft flexible plastic, and when combined with the tethered dropper form a squeezable dispensing device, it can be used to apply one or more droplets onto a lateral flow test cartridge.

## PLUS FEATURES

**NO NEED FOR ADDITIONAL SAMPLE PREPARATION SUPPLIES**

### CUSTOMIZED PRODUCTS

**Custom Design, Mold, and Fill Key Components for your Assay.**

Can be filled with one or two reagents for sample treatment depending upon the assay chemistry. Cap allows samples to be sealed and forwarded to a reference lab.

**CUSTOM FILTER RETAINS PARTICLES OR SEMI SOLID DEBRIS**

**SAMPLE PREPARATION DEVICES ARE CUSTOMIZABLE** and may include a combination of **sample processing tubes, reagents, tethered dropper, tube cap and FLOQSwab™**.

**PRE FILLED WITH TWO SEPARATE REAGENTS** which are kept separate until use.

**IDEAL FOR SINGLE SHOT TESTING**

## PnR CAP



**PnR**, an acronym for Pierce-able and Re-sealable, is the name of COPAN unique patent pending invention of **pierce-able and re-sealable screw caps** of various sizes designed to be applied to specimen collection tubes. The top of the cap is covered with a pierce-able metallic foil film, which protects the Duck Bill valve until the moment of use.

The PnR cap revolutionizes specimen management **by eliminating time consuming de-capping, re-capping, and repetitive stress injuries**. Also, the re-sealable feature ensures that specimens are immediately reclosed, eliminating the need to manually do that and avoiding potential contamination from tubes being open for prolonged periods of time.

## PLUS FEATURES

**ENABLES EASY ENTRY AND EXIT BY AUTOMATIC PIPETTING SYSTEMS**

**LOAD AND WALK AWAY:** no need to remove and replace tube caps during processing.

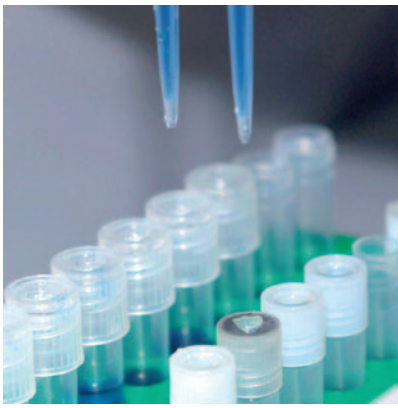
**THE PNR CAP, WHEN USED WITH AN AUTOMATIC PIPETTOR, ENABLES AUTOMATIC OPENING, SAMPLING, AND RECLOSING**

**AUTOMATICALLY AND QUICKLY RESEALS AFTER SAMPLING AND IS LEAKPROOF**

**REDUCES RISK OF REPETITIVE STRESS DISORDER BY ELIMINATING THE NEED TO CAP AND RECAP SAMPLES**

**UNIQUE DUCK BILL VALVE:** no risk of vacuum or positive pressure.

**SCALABLE DESIGN:** 16mm, 12mm and 10mm diameter.



### THIS NEW PLASTIC PnR CAP WORKS AS FOLLOWS:

- 1 - The PnR cap arrives sealed (with a foil seal), which prevents any leakage or evaporation.
- 2 - The automatic pipettor pierces through the foil seal and it breaks the membrane valve along a "micro-perforated" line.
- 3 - Then the automatic pipettor enters the tube. The pressure must equilibrate immediately. Otherwise, the volume uptake is hindered or compromised by the pressure.
- 4 - The liquid is taken up and then the automatic pipettor exits.
- 5 - The PnR cap's membrane valve will reconstitute within a few seconds to make the tube leakproof.



## NAO™ BASKET



 **DNASE, RNASE-FREE  
AND HUMAN DNA FREE**

### + 60% DNA RECOVERY

Laboratory tests show that a 60% increased recovery of nucleic acids can be achieved by processing the sample with NAO™ basket in comparison with standard procedures.



Please refer to our How-to Use Guides under the helpful links of our website to see different product combinations.  
[www.copanflock.com](http://www.copanflock.com)

### This is not the ordinary spin basket...

The Nucleic Acid Optimizer is a special **plastic basket** that allows **fast and complete recovery of nucleic acids** from swab samples, card punches or other specimens into the sample tube.

NAO basket is designed with a collapsible bottom that allows **passage of all eluted DNA sample from the collection device (i.e. swab) during the high speed centrifugation step**, while guaranteeing the **perfect tightness of the system during vortexing**.

## PLUS FEATURES

### 60% INCREASED RECOVERY OF DNA FROM THE SPECIMEN

**ABILITY TO RELEASE ALL DNA** from the swab after high speed centrifugation

### PERFECT TIGHTNESS OF THE SYSTEM DURING VORTEXING:

demonstrated ability to retain different types of liquid after several vortexing times and storage conditions.

### SIGNIFICANTLY REDUCED MANIPULATION OF THE SAMPLE:

less labor intensive processing and risks of contamination.

### COMPATIBILITY AND PERFORMANCE WITH COMMERCIAL NUCLEIC EXTRACTION PLATFORMS

		DNA recovered (pg/ul)	Average (pg/ul)
test n.1	with NAO	469,68	403,5
	with NAO	337,31	
	without NAO	257,92	268,51
	without NAO	279,09	
test n.2	with NAO	283,27	271,94
	with NAO	260,6	
	without NAO	175,32	165,19
	without NAO	155,05	
test n.3	with NAO	934,16	864,27
	with NAO	794,38	
	without NAO	578,63	480,56
	without NAO	382,48	



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