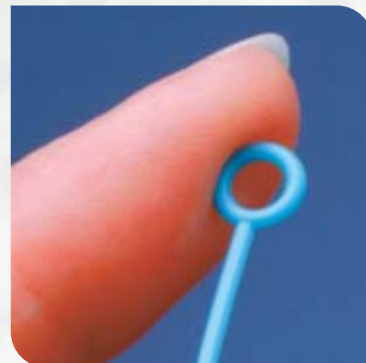
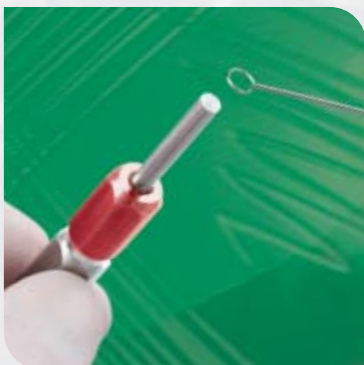


INOCULATING LOOPS, NEEDLES and SPREADERS



NICHROME WIRE LOOPS

Calibrated 1 μ L, 10 μ L sizes & various non-calibrated sizes

COMBO WIRE LOOPS

Range of combination wire loops attached to handles

PLASTIC CALIBRATED LOOPS

1 μ L and 10 μ L size disposable loops

PLASTIC INOCULATING NEEDLES

Regular & Mini-Needle

T-SHAPED & L-SHAPED SPREADERS

For dispersing liquids over culture plates



NiChrome Wire Loops, Handles and Combo-Loops

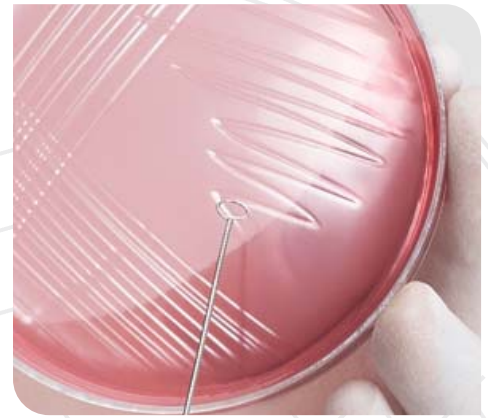
Calibrated and Non-Calibrated Loops

Choose from a wide range of accurately calibrated and non-calibrated Nickel-Chrome wire loops.



Ultra smooth - no gouging of agar

Copan NiChrome wire loops have totally smooth surfaces and will not cut or gouge through agar medium when streaking plate cultures.



Flexibility and rapid cooling

Loops are made of an 80/20 Nickel-Chrome metal wire. A strand of wire is molded around a specific pin size to form the loop shape and then the ends of wire strand are twisted together. The twisting process gives the loop its characteristic flexibility. Choice of 80/20 Nickel-Chrome means the loops have the properties of durability and rapid cooling following heat sterilization.



Durable and inexpensive

Designed to be durable and long lasting, Copan NiChrome loops last many weeks or months depending on the intensity of use. They cost less than traditional platinum-rhodium loops.

Non-Calibrated Loops in four sizes

Non-Calibrated Loops are available in a range of sizes with internal diameters (Ø) of 2, 3, 4 or 5mm. Loops are supplied in tubes containing 25 loops.

Non-Calibrated Loops sold in tubes containing 25 Loops.



Calibrated Loops: 1µL and 10µL sizes

Two volumetric size loops are available, one micro-liter (1µL) and ten micro-liters (10µL), for performing quantitative specimen cultures such as urinalysis. Accuracy conforms to FDA Drill Bit Method. Loops are purchased individually and are supplied with a Certificate of Calibration.

Calibrated Loops sold individually in tubes



Certificate of Calibration provided

Calibrated loops are purchased individually and supplied with a Certificate of Calibration.



Wide Selection, Economical and Durable

Loop Handles – six and seven inch handle lengths

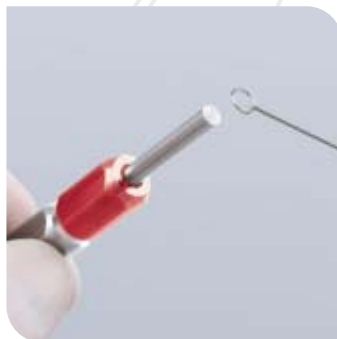
Copan supplies a choice of light weight Aluminum and heavier Nickel plated Brass handles. The shafts of the loop handles are insulated with PVC. Both Aluminum and Brass handles are available in a choice of sizes 6 inch (150mm) and 7 inch (175mm).

Combo-Loops (combined loop + handle)

A range of NiChrome wire loops attached to light weight insulated aluminum handles. Combo-loops are non-calibrated and available in a range of loop sizes 2, 3, 4 and 5mm internal diameter (Ø). Combo-Loop handles are color coded to facilitate easy size identification. They offer the convenience of a ready-to-use loop and handle combination. Like regular NiChrome loops, Combo-Loops are sterilized between use by using an incinerator or Bunsen flame. The whole unit is designed to be discarded when the wire loop eventually wears out.

Tool-Gauge verifies accuracy of Calibrated Loops

Continual heating and cooling of the NiChrome wire loop to sterilize between use means there is always a risk that the 1µL and 10µL calibrated loops can become distorted or there is an excessive build up of burnt organic material on the surface of the loop. Both conditions can significantly alter the liquid volume delivered by the loop and hence the accuracy. Copan offers a simple QC procedure for checking the accuracy of the loop using a **GoNoGo** tool gauge for both one and ten micro-liter loops.



At any time during the life of the loop the user can check and verify the accuracy using the simple tool gauge. The **GoNoGo** measuring gauge is very easy to check accuracy of the loop at any time and is based upon the FDA Drill Bit Method for checking the calibration of metal loops.

NiChrome Wire Loops, Handles and Combo-Loops

LOOP HANDLES – SIX & SEVEN INCH HANDLE LENGTHS

Copan supplies a choice of light weight Aluminum and heavier Nickel plated Brass handles. The shafts of the loop handles are insulated with PVC. Both Aluminum and Brass handles are available in a choice of sizes 6 inch (150mm) and 7 inch (175mm).

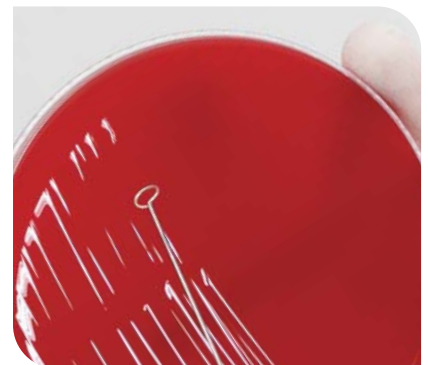
Catalog No.	Description	Packaging
K44	Aluminum Loop Holder with PVC Handle – 6in/150mm length	each
K45	Aluminum Loop Holder with PVC Handle – 7in/175mm length	each
K46	Plated Brass Loop Holder with PVC Handle – 6in/150mm length	each
K47	Plated Brass Loop Holder with PVC Handle – 7in/175mm length	each



NON-CALIBRATED LOOPS IN FOUR SIZES

Non-Calibrated Loops are available in a range of sizes with internal diameters (Ø) of 2, 3, 4 or 5mm. Loops are supplied in tubes containing 25 loops.

Catalog No.	Description	Packaging
310C25T	Non-Calibrated Loop 2mm Ø - 26 Ga.	25/tube
311C25T	Non-Calibrated Loop 3mm Ø - 26 Ga.	25/tube
312C25T	Non-Calibrated Loop 4mm Ø - 26 Ga.	25/tube
313C25T	Non-Calibrated Loop 5mm Ø - 26 Ga.	25/tube



Wide Selection, Economical and Durable

CALIBRATED LOOPS: 1 μ L AND 10 μ L SIZES

Loops are purchased individually and are supplied with a Certificate of Calibration.

Catalog No.	Description	Packaging
314C01T	Calibrated 1 μ L Loop	each
315C01T	Calibrated 10 μ L Loop	each



TOOL-GAUGES TO VERIFY ACCURACY OF CALIBRATED LOOPS

Copan offers a simple QC procedure for checking the accuracy of the loop using a *GoNoGo* tool gauge for both one and ten micro-liter loops.

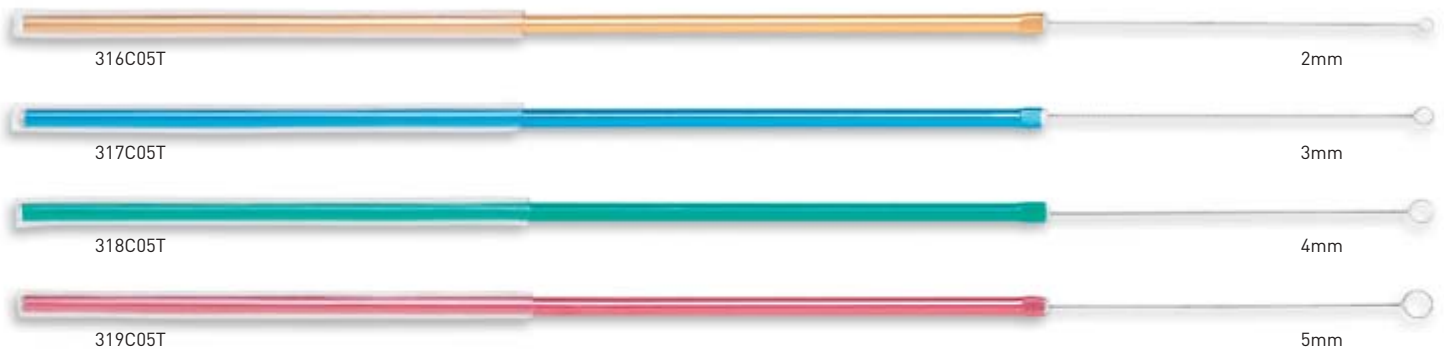
Catalog No.	Description	Packaging
K34	Calibration Gauge for 1 μ L Loop	each
K35	Calibration Gauge for 10 μ L Loop	each



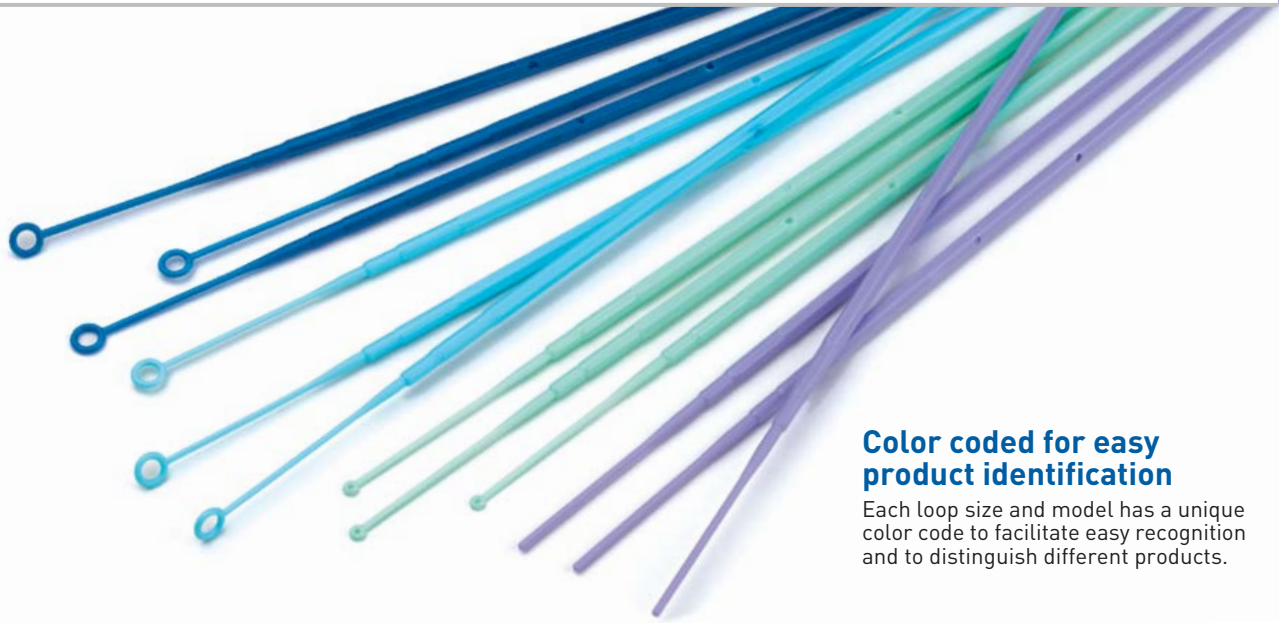
COMBO-LOOPS (COMBINED LOOP + HANDLE)

A range of NiChrome wire loops attached to light weight insulated Aluminum handles.

Catalog No.	Description	Packaging
316C05T	Non-Calibrated Loop 2mm \varnothing - 26 Ga. With Aluminum Insulated Handle	5/pk
317C05T	Non-Calibrated Loop 3mm \varnothing - 26 Ga. With Aluminum Insulated Handle	5/pk
318C05T	Non-Calibrated Loop 4mm \varnothing - 26 Ga. With Aluminum Insulated Handle	5/pk
319C05T	Non-Calibrated Loop 5mm \varnothing - 26 Ga. With Aluminum Insulated Handle	5/pk



Calibrated Plastic Inoculation Loops and Needles



Color coded for easy product identification

Each loop size and model has a unique color code to facilitate easy recognition and to distinguish different products.



Ultra smooth loop surfaces allows easy streaking

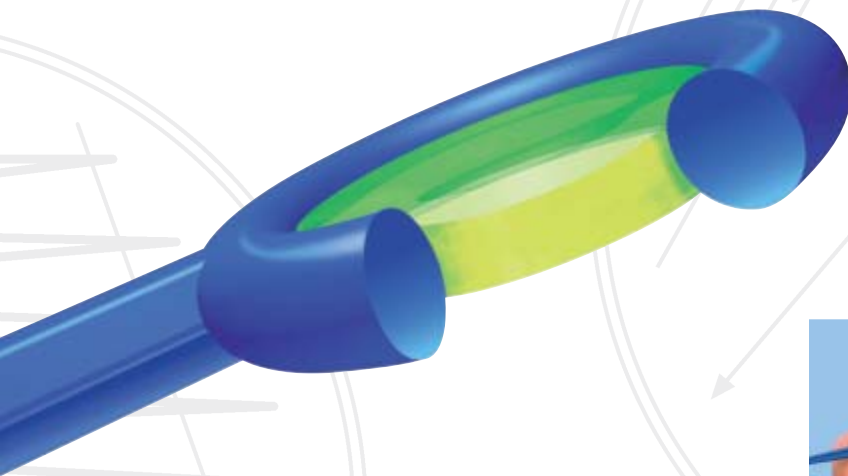
No rough plastic edges, flashing or burrs on the loop head means smooth, problem free planting and streaking of cultures. Loops do not cut or gouge the agar surface during streaking.

Choice of rigid or flexible loops

Soft-flexible or rigid plastic to cater to different applications and preferences of microbiologists, Copan manufactures two lines of 1 μ l and 10 μ l loops using two different plastic compounds: soft-flexible plastic or harder rigid plastic.

flexible

rigid



Free of lubricants, oils and electrostatic charges enabling consistent wetting and complete liquid transfer

Eliminating these factors allows consistent wetting of the plastic, allowing the correct surface tension on the inside walls of the loop. Correct size droplet is formed and complete transfer of this volume takes place without leaving behind any beads of liquid.



Hexagonal loop shaft improves grip, assists orientation and makes diluting and streaking easy

When viewed in cross section, the shafts of the Copan loops have an hexagonal shape creating a handle with six flat surfaces. This design facilitates maximum grip and easy orientation of the loop head. When planting and streaking cultures for isolated colonies, the hexagonal handle allows the microbiologist to quickly and easily rotate the loop head from one flat side to another or from flat side to the edge of the loop. This easy action means diluting streaks for isolated colonies can be performed very quickly and smoothly. The hexagonal loop shaft helps the microbiologist index the first streak then rotate the loop head to achieve the second, third and fourth dilution streaks.

Choice of Rigid or Flexible Loops and Needles

Plastic disposable inoculating needles

Copan inoculating needles are the perfect tools for picking off individual isolated colonies within mixed cultures growing on plated medium. They are also ideal for making stab inoculations into agar slants or tubes of solid culture medium.

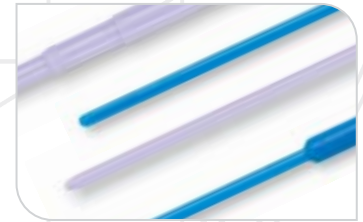


Choice of Regular or Mini-Needle

Copan offers a choice of two types of plastic disposable needles: Regular and Mini-Needles. The total length of the Regular Needle product is 20cm and it has a 1.45mm diameter needle shaft. Regular Needles have a much longer reach and a broader needle shaft in comparison with the Copan Mini-Needles. Mini-Needles can be used for more delicate operations, they have a more slender design and the needle shaft itself is narrower and more flexible than the Regular Needle. The total length of the Mini-Needle product is 15cm and the needle shaft has a 1.15mm diameter.

Choice of features - flexibility, thickness or length

The users can choose which features best suit their specific task - flexibility, diameter of the needle or the total reach.



PLASTIC RESEALABLE POUCH



MEDICAL PEEL POUCH



Waterproof Pack Prevents Moisture Contamination

Copan all plastic resealable packaging is totally waterproof eliminating the risk of moisture or liquid contamination while the product is lying on the work bench, in a glove box or safety cabinet.

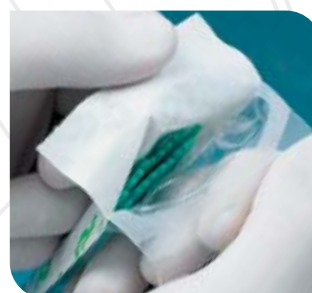


Unique All Plastic Packaging With Re-Sealable Window

Copan loops and needles now available in a new style all plastic peel pack with a re-sealable window. When traditional paper-pouches are opened for the first time they remain open with no means for re-closure. The New Copan loop and needle packs allow the user to open and close loop pack any number of times and remove product individually or as needed due to the unique re-sealable window. This feature means that the product is never left continually open and exposed to the risk of contamination.

Convenient, cost effective packaging

Loops and needles are packed in choice of quantities of 10 or 20 inside medical style paper-plastic peel pouches. Each box of loops contains 50 or 100 pouches respectively, giving a total count of 1,000 loops per box.



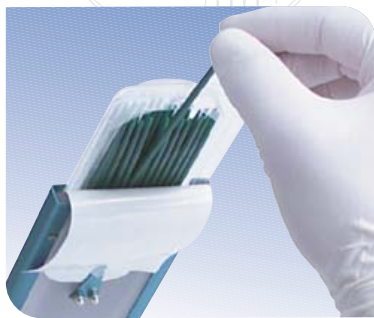
Packed in easy peel-open medical pouches

Ideal packaging for the busy laboratory planting many specimens or performing many subcultures every day. The easy-peel open pouch enables fast and easy access to the product especially when wearing latex gloves.

Plastic Resealable Pouches and Unique Holder

Unique Holder Enhances Ease of Use

Unique pack holders are available which greatly enhance the ease of use of this product. The peel open window in the plastic pack is secured in the open position by insertion into a retaining clip. Loops or needles can then be simply and smoothly accessed using one hand allowing the operator to have the other hand completely free to hold a culture plate or tube.

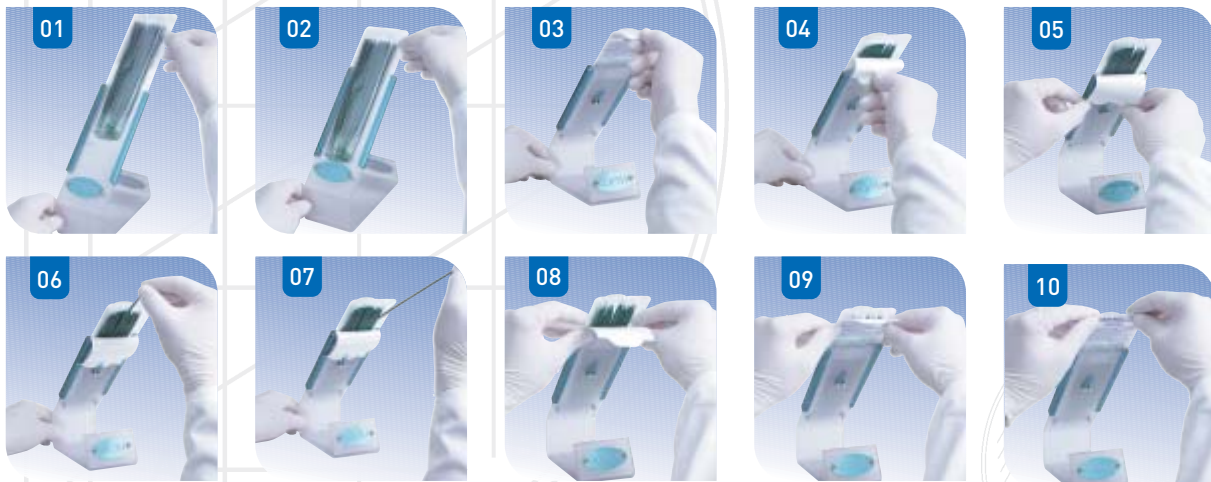


Inverted Position of Pack Opening Prevents Aerial Contamination

When placed in the holder the peel open window entrance of the product pack is facing downward. In this case open packs are effectively shielded from any bacteria in the atmosphere, which might otherwise fall vertically into the product and compromise the sterility.



Follow the steps below to see how easy the resealable loop packaging is to use.

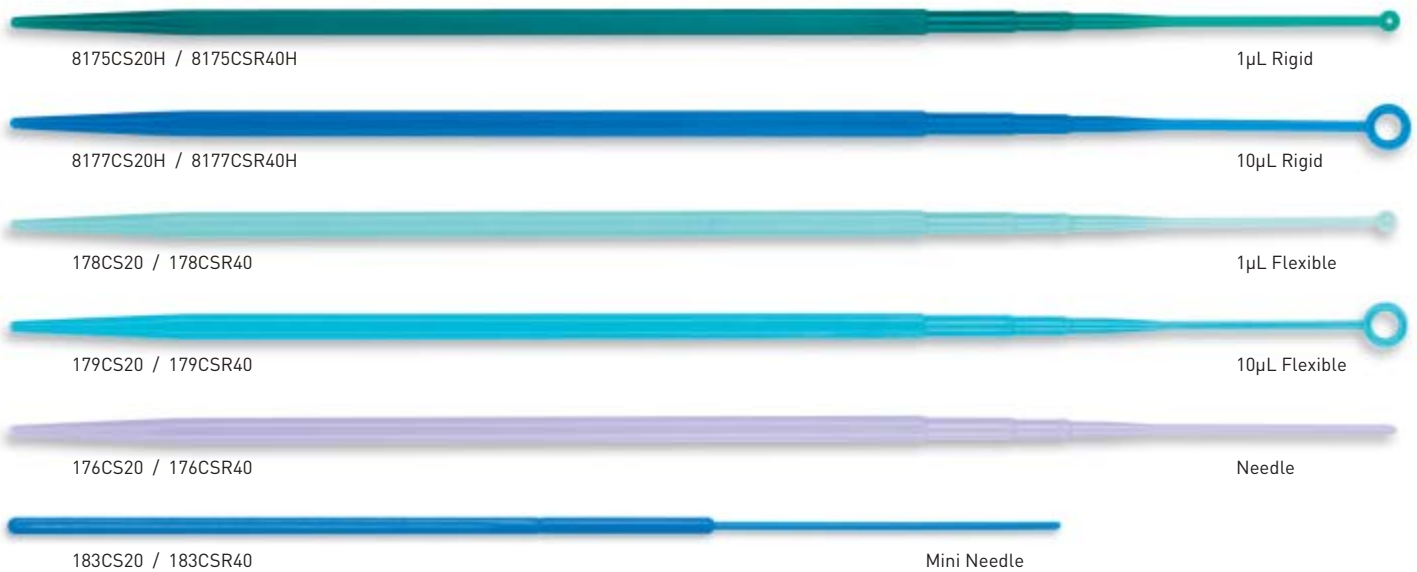


CALIBRATED DISPOSABLE INOCULATION LOOPS AND NEEDLES IN MEDICAL PEEL POUCH

Catalog No.	Description			Packaging	Case
8175CS10H	1µL Loop	Rigid (hard) plastic	Dark Green	10/pouch – 500/box	2000 PCS
8175CS20H	1µL Loop	Rigid (hard) plastic	Dark Green	20/pouch – 1000/box	4000 PCS
8177CS10H	10µL Loop	Rigid (hard) plastic	Dark Blue	10/pouch – 500/box	2000 PCS
8177CS20H	10µL Loop	Rigid (hard) plastic	Dark Blue	20/pouch – 1000/box	4000 PCS
178CS10	1µL Loop	Flexible (soft) plastic	Light Green	10/pouch – 500/box	2000 PCS
178CS20	1µL Loop	Flexible (soft) plastic	Light Green	20/pouch – 1000/box	4000 PCS
179CS10	10µL Loop	Flexible (soft) plastic	Light Blue	10/pouch – 500/box	2000 PCS
179CS20	10µL Loop	Flexible (soft) plastic	Light Blue	20/pouch – 1000/box	4000 PCS
176CS20	Inoculation Needle	1.45mm ø - 20cm length	Violet	20/pouch – 1000/box	4000 PCS
183CS10	Mini Inoculation Needle	1.15mm ø - 15cm length	Blue	10/pouch – 500/box	2000 PCS
183CS20	Mini Inoculation Needle	1.15mm ø - 15cm length	Blue	20/pouch – 1000/box	4000 PCS

CALIBRATED DISPOSABLE INOCULATION LOOPS AND NEEDLES IN RESEALABLE POUCH

Catalog No.	Description			Packaging	Case
8175CSR40H	1µL Loop	Rigid (hard) plastic	Dark Green	40/pack – 1000/box	4000 PCS
8177CSR40H	10µL Loop	Rigid (hard) plastic	Dark Blue	40/pack – 1000/box	4000 PCS
178CSR40	1µL Loop	Flexible (soft) plastic	Light Green	40/pack – 1000/box	4000 PCS
179CSR40	10µL Loop	Flexible (soft) plastic	Light Blue	40/pack – 1000/box	4000 PCS
176CSR40	Inoculation Needle	1.45mm ø - 20cm length	Violet	40/pack – 1000/box	4000 PCS
K24C	Loops Dispenser				



Loop accuracy certified using Evans Blue Dye Method^{1,2}

An Evans Blue Dye Certificate of Calibration is included in every box of Copan calibrated inoculation loops. This method measures the actual volume of liquid transferred by a loop. Copan loop calibration method and certification complies with lab licensing and CAP regulations. Copan's loop certificates can be conveniently kept on file in the lab ready for any regulatory audit.

REFERENCES:

1. Clarridge, J.E., M.T. Pezzlo, and K.L. Vosti., 1987 Cumitech 2A, Laboratory Diagnosis of Urinary Tract Infections. Coordinating ed., A.S. Weissfield. American Society for Microbiology, Washington, DC.
2. Isenberg HD (Editor in Chief) 1992. Calibration of Quantitative Loops, 12.17.10 - 12.17.12, Clinical Microbiology Procedures Handbook. American Society for Microbiology, Washington, DC.

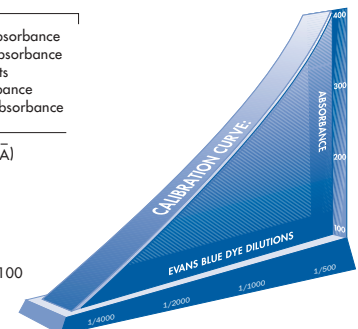
A_i = individual absorbance
 n = number of absorbance measurements
 \bar{A} = mean absorbance
 A_c = theoretical absorbance

Mean absorbance (\bar{A})

$$\bar{A} = \frac{\sum A_i}{n}$$

Inaccuracy (E%): use four readings

$$E\% = \frac{\bar{A} - A_c}{A_c} \times 100$$



T-Shaped and L-Shaped Spreaders



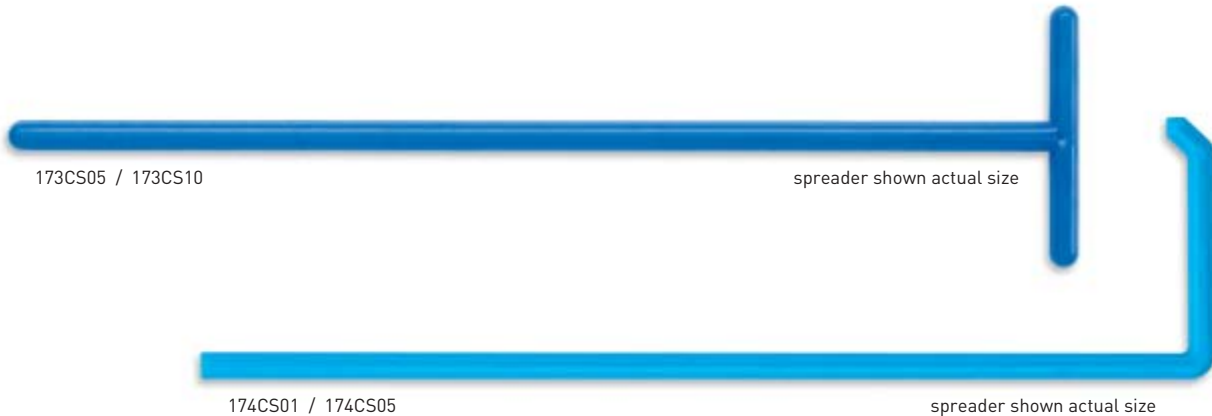
T-Shaped Plastic Spreaders

The Sterile T-Shaped Spreaders are designed for spreading and dispersing liquids across the surface of agar culture plates. Spreaders are used for performing bacterial CFU plate counts on water, milk, urine and other liquid samples. Copan T-Shaped Spreaders have all smooth rounded surfaces to prevent any cutting or gouging of agar during inoculation of culture plates. The T-Shape design means that even pressure is applied across the entire length of the T-bar in contact with the agar surface. T-Shaped Spreaders are available individually sterile wrapped or in packs of 5 and 10 pieces in a peel pouch.

L-Shaped Plastic Spreaders

for spreading liquid samples The foot of the spreader has a completely smooth rounded surface, free of rough edges and imperfections in the plastic. This feature enables even spreading of liquid samples across the surface of agar plates without gouging or cutting the medium. L-Shaped Spreaders are available in two sterile pouch sizes - single wrapped or five spreaders per pack.

Catalog No.	Description	Packaging
173CS05	T-Shaped Spreader	5 / peel pack
173CS10	T-Shaped Spreader	10 / peel pack
174CS01	L-Shaped Spreader	1 / peel pack
174CS05	L-Shaped Spreader	5 / peel pack



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