

## SIMPLIFY YOUR LABORATORY IDENTIFICATION

Brady's line of laboratory identification products are designed to serve the nation's biotechnology, agricultural, environmental and forensic researchers.

The new products meet four current labeling challenges associated with sample container tracking: sizing, legibility, durability and increased information requirements.

- ▶ Easy matching to existing vial, slide, and well plate sizes
- ▶ Consistent readability by everyone, every time
- ▶ Chemical-resistance and durability under extreme conditions, including freezer storage, liquid nitrogen, autoclave and hot water baths
- ▶ Easy barcoding, allowing researchers to include more label information and drastically reduce human error

## WHY LABELS?

### ▶ LEGIBILITY



#### Hand-Written Labels

- ▶ Hand-written information difficult to read
- ▶ Ink smears easily when handled
- ▶ Limited write-on area
- ▶ Time consuming
- ▶ Ink fades while stored long term
- ▶ Chemicals and solvents wash away ink



#### Printed Labels

- ▶ Ink won't smear or fade
- ▶ Crisp, clear and readable text
- ▶ More information fits on label
- ▶ Quickly and easily design and print labels (auto serialize)
- ▶ Increased legibility/durability
- ▶ Chemical and solvent resistant

### ▶ BAR CODE CAPABILITIES (LINEAR & 2D)

#### Printed Labels

- ▶ Easily identify and retrieve samples
- ▶ Accurately track samples and chemicals from receipt to disposal
- ▶ Eliminate human error with log-in and inventory data entry
- ▶ Automatically update sample information



## THE BENEFITS OF SELF-LAMINATING WRAP AROUND LABELS



*\*For best adhesion, we recommend that you do not touch the adhesive side of the label when wrapping it around your vial or tube.*

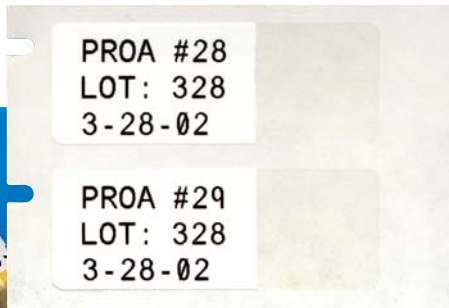


Brady's special self-laminating or wrap around label protects your label's legend from extreme temperature, chemicals and solvents.

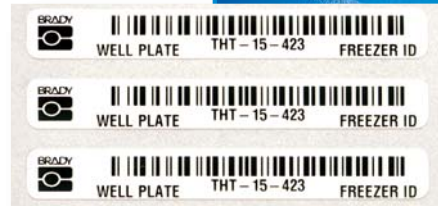
- ▶ Clear portion raps around and laminates the legend
- ▶ Legend is easily visible
- ▶ Legend is protected from spills and scratches
- ▶ Label completely wraps around vial/tube

# LABORATORY IDENTIFICATION

## Centrifugal Tube Identification PTL-76-461



## Well Plate Identification THT-15-423



## Tamper Identification PTL-17-351



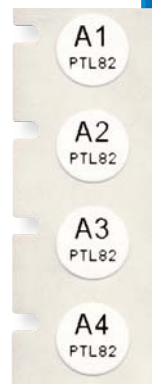
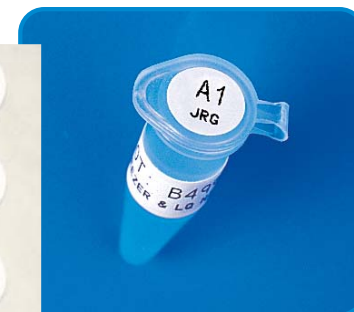
## Straw Identification PTL-19-427



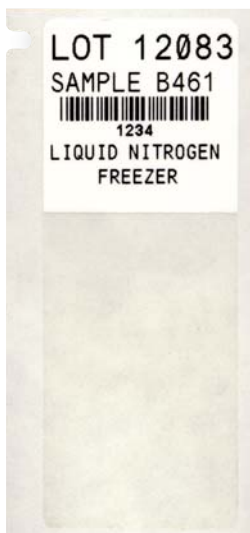
## Slide Identification PTL-97-488



## Vial Top Identification PTL-83-499



## Cryovial and Test Tube Identification PTL-75-461



# LABORATORY IDENTIFICATION MATERIALS CHART

- F** Freezer environment
- N** Liquid nitrogen environment
- A** Autoclave environment
- H** Hot water (100°C) baths
- S** Self-laminating label
- L** Low-profile (extremely thin) label

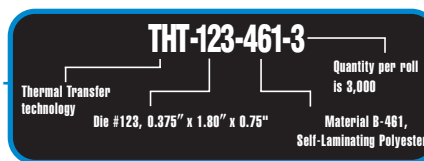
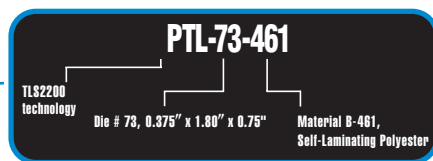
Brady Material #	Application	Special Properties	Recommended for use in	Ribbon Series	Temperature Range °C (°F)
<b>PAPER</b>					
B-424	Slides, bottles and general laboratory identification	Good contrast, write-on capabilities	<b>F</b>	*R4300 <sup>1</sup>	-70 to 70 (-94 to 212)
<b>NYLON CLOTH</b>					
B-499	Vials, tubes, slides, plates, bottles and general laboratory identification	Permanent adhesive; write-on capabilities	<b>F N A</b>	*R4900 R4300 R4500 R6000 R6200	-196 to 90 (-320 to 194) *121° (250°)
<b>POLYESTER</b>					
B-423	Plates, bottles and general laboratory identification	Permanent acrylic adhesive; ideal for flat surfaces	<b>F A</b>	*R6000 <sup>1</sup> R4400 R4900 R6200	-70 to 120 (-94 to 248) *121° (250°)
B-430	Petri dishes, bottles and general laboratory identification	Permanent acrylic adhesive; ideal for flat surfaces	<b>F A</b>	*R6000 <sup>1</sup> R4400 R4900 R6200	-70 to 120 (-94 to 248) *121° (250°)
B-433	Slides, well plates, bottles and general laboratory identification	Removable from flat surfaces	<b>F A</b>	*R6000 <sup>1</sup> R4400 R4900 R6200	-70 to 120 (-94 to 248) *121° (250°)
B-461	Vials, tubes and slides	Permanent adhesive. Suitable for liquid nitrogen application if label material is wrapped around itself, as in self-lamination; write-on capabilities	<b>F N A H S L</b>	*R4300 <sup>1</sup> R4500 R6200	-70 to 100 (-94 to 212) *121° (250°) ** -196 to 100 (-320 to 212)
B-488	Slides, plates, bottles and general laboratory identification	Permanent acrylic adhesive; ideal for flat surfaces; write-on capabilities. Excellent solvent resistance	<b>F A</b>	*R4300 R6200	-70 to 120 (-94 to 248) *121° (250°)
<b>POLYPROPYLENE</b>					
B-449	Slides, well plates, bottles and general laboratory identification	Removable from flat surfaces; write-on capabilities	<b>F A</b>	*R6200	-70 to 120 (-94 to 248) *121° (250°)
<b>VINYL</b>					
B-351	Applications requiring evidence of tampering	Tamper-resistant film with a permanent acrylic adhesive. Fractures easily to prevent removal	<b>F</b>	*R4300 <sup>1</sup>	-70 to 100 (-94 to 212) *121° (250°)
B-427 <sup>1</sup>	Vials, tubes, slides and bottles.	Permanent acrylic adhesive; self-laminating; write-on capabilities. Suitable for liquid nitrogen application if label material is wrapped around itself, as in self-lamination	<b>F N S</b>	*R4300 R4500 R6200	-70 to 70 (-94 to 212) *121° (250°) ** -196 to 100 (-320 to 212)

\* Recommended ribbon for use with the material

<sup>1</sup> Not for use on glass in liquid nitrogen.

\* Temperature range increases to 121°C (250°F) when used in autoclave process.

\*\* Temperature range is -196°C to 100°C (-320°F to 212°F) if material is wrapped around itself as in self-lamination.



### PART NUMBER EXPLANATION:

Most Brady part numbers for printable labels follow the same three-part format:

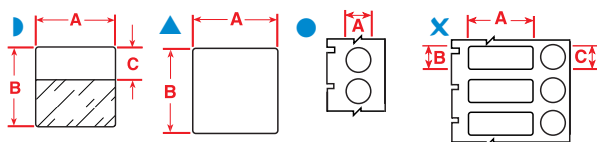
The first code indicates the technology, the second part is a number indicating the die size used (where applicable) and the third part indicates the Brady material used (where applicable).

Diagram	Maximum Centrifuge Tube Dia. (mm)	TLS2200® Part Number	Thermal Transfer Part Number	Pieces Per Package TLS / THT	Label Width Inch (mm) A	Label Height Inch (mm) B	Write-On Area Inch (mm) or Diameter C	Recommended for use in
<b>0.50 TO 0.70 ML VIAL / TUBE</b>								
	8 mm	PTL-73-461	THT-123-461-3	500 / 3000	0.375 (9.53)	1.80 (45.72)	0.75 (19.05)	<b>F N A H S L</b>



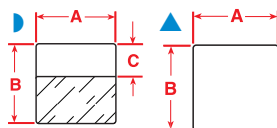
# LABORATORY IDENTIFICATION LABELS

- F** Freezer environment
- N** Liquid nitrogen environment
- A** Autoclave environment
- H** Hot water (100°C) baths
- S** Self-laminating label
- L** Low-profile (extremely thin) label



## CENTRIFUGE TUBE LABELS

Diagram	Maximum Centrifuge Tube Dia. (mm)	TLS2200® Part Number	Thermal Transfer Part Number	Pieces Per Package TLS / THT	Label Width Inch (mm) A	Label Height Inch (mm) B	Write-On Area Inch (mm) or Diameter C	Recommended for use in
<b>0.50 TO 0.70 ML VIAL / TUBE</b>								
▶	8 mm	PTL-73-461	THT-123-461-3	500 / 3000	0.375 (9.53)	1.80 (45.72)	0.75 (19.05)	<b>F N A H S L</b>
▲	N/A	PTL-11-499	THT-68-499-10	500 / 3000	0.50 (12.70)	0.75 (19.05)		<b>F N A</b>
▶	8 mm	PTL-72-461	THT-122-461-3	500 / 3000	0.50 (12.70)	1.80 (45.72)	0.75 (19.05)	<b>F N A H S L</b>
▶	11.4 mm	PTL-74-427	THT-129-427-3	100 / 3000	0.50 (12.70)	2.20 (55.88)	0.75 (19.05)	<b>F N S</b>
▶	11.4 mm	PTL-74-461	THT-127-461-3	100 / 3000	0.50 (12.70)	2.20 (55.88)	0.75 (19.05)	<b>F N A H S L</b>
▲	N/A	PTL-84-499	N/A	500 / N/A	0.90 (22.86)	0.50 (12.70)		<b>F N A</b>
X	N/A	N/A	THT-126-499-3	N/A / 3000	0.90 (22.86)	0.50 (12.70)	0.50 (25.4) dia.	<b>F N A</b>
X	N/A	PTL-98-499	N/A	500 / N/A	1.00 (25.40)	0.375 (9.52)	0.375 (9.53) dia.	<b>F N A</b>
▲	N/A	PTL-16-499	THT-152-499-3	500 / 3000	1.00 (25.40)	0.375 (9.53)		<b>F N A</b>
<b>1.50 TO 2 ML VIAL / TUBE</b>								
▲	N/A	PTL-84-499	N/A	500 / N/A	0.90 (22.86)	0.50 (25.40)		<b>F N A</b>
▶	11.4 mm	PTL-74-427	THT-129-427-3	100 / 3000	0.50 (12.70)	2.20 (55.88)	0.75 (19.05)	<b>F N S</b>
▶	11.4 mm	PTL-74-461	THT-127-461-3	100 / 3000	0.50 (12.70)	2.20 (55.88)	0.75 (19.05)	<b>F N A H S L</b>
▶	12.0 mm	PTL-76-461	THT-133-461-3	250 / 3000	0.60 (15.24)	1.625 (41.28)	1.00 (25.40)	<b>F N A H L</b>
▶	13 mm	PTL-86-461	THT-153-461-3	100 / 3000	0.60 (15.24)	2.625 (66.68)	1.00 (25.40)	<b>F N A H S L</b>



## CONICAL / BOTTLE / PETRI DISH LABELS

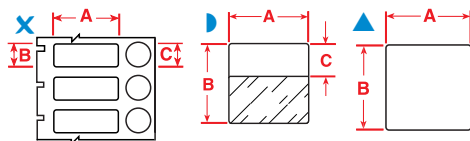
Diagram	Maximum Centrifuge Tube Dia. (mm)	TLS2200® Part Number	Thermal Transfer Part Number	Pieces Per Package TLS/THT	Label Width Inch (mm) A	Label Height Inch (mm) B	Write-On Area Inch (mm) C	Recommended for use in
<b>14 / 15ML CONICAL TUBE</b>								
▶	16.7 mm	PTL-77-461	THT-134-461-3	100 / 3000	1.50 (38.10)	3.50 (88.9)	1.25 (31.75)	<b>F N A H S L</b>
<b>50ML CONICAL TUBE AND BOTTLES</b>								
▶	N/A	PTL-7-423	N/A	500 / N/A	0.50 (12.70)	0.50 (12.70)		<b>F A</b>
▲	N/A	PTL-31-499	N/A	250 / N/A	0.50 (12.70)	1.00 (25.40)		<b>F N A</b>
▲	N/A	PTL-30-427AW*	THT-135-427AW-3	250 / 3000	0.75 (19.05)	1.50 (38.10)		<b>F</b>
▲	N/A	PTL-14-423	N/A	750 / N/A	1.00 (25.40)	0.187 (4.75)		<b>F A</b>
▲	N/A	PTL-17-423	THT-5-423-10	500 / 10,000	1.00 (25.40)	0.50 (12.70)		<b>F A</b>
▲	N/A	PTL-17-430	N/A	500 / N/A	1.00 (25.40)	0.50 (12.70)		<b>F A</b>
▲	N/A	PTL-5-433	N/A	???	1.00 (25.40)	0.50 (12.70)		<b>F A</b>
▲	N/A	PTL-20-423	N/A	100 / N/A	1.00 (25.40)	2.00 (50.80)		<b>F A</b>
▲	N/A	PTL-22-423	N/A	100 / N/A	1.00 (25.40)	3.00 (76.20)		<b>F A</b>
▶	29 mm	N/A	THT-139-461-2	N/A / 2000	1.00 (25.40)	5.25 (133.35)	1.50 (38.10)	<b>F N A H S L</b>
▶	N/A	PTL-29-499	N/A	500 / N/A	1.50 (38.25)	0.50 (12.70)		<b>F N A</b>
▶	N/A	PTL-78-427AW	N/A	250 / N/A	1.90 (48.26)	1.00 (25.40)		<b>F</b>
▶	N/A	PTL-78-499	N/A	250 / N/A	1.90 (48.26)	1.00 (25.40)		<b>F N A</b>
▶	N/A	PTL-30-499	THT-136-499-3	250 / 3000	1.50 (38.10)	0.75 (19.05)		<b>F N A</b>
▶	N/A	N/A	THT-137-427AW-3	N/A / 3000	2.00 (50.80)	1.00 (25.40)		<b>F</b>
▶	N/A	N/A	THT-17-499	N/A / 3000	2.00 (50.80)	1.00 (25.40)		<b>F N A</b>
▶	N/A	N/A	THT-137-499-3	N/A / 3000	2.00 (50.80)	1.00 (25.40)		<b>F N A</b>

\*The label is all white.

# LABORATORY IDENTIFICATION LABELS

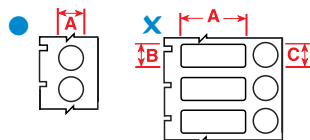
CONTINUED

- F** Freezer environment
- N** Liquid nitrogen environment
- A** Autoclave environment
- H** Hot water (100°C) baths
- S** Self-laminating label
- L** Low-profile (extremely thin) label



## VIAL/TUBE LABELS

Diagram	Maximum Centrifuge Tube Dia. (mm)	TLS2200® Part Number	Thermal Transfer Part Number	Pieces Per Package TLS / THT	Label Width Inch (mm) A	Label Height Inch (mm) B	Write-On Area Inch (mm) C	Label Dia. Inch (mm) D	Recommended for use in
<b>0.60 ML VIAL / TUBE</b>									
▲	N/A	PTL-11-499	THT-68-499-10	500 / 10,000	0.50 (12.70)	0.75 (19.05)			FNA
▲	N/A	PTL-84-499	N/A	500 / N/A	0.90 (22.86)	0.50 (12.70)			FNA
▶	11.4 mm	PTL-74-427	THT-127-427-3	100 / 3000	2.20 (55.88)	0.50 (12.70)	0.75 (19.05)		FN S
▶	11.4 mm	PTL-74-461	THT-127-461-3	100 / 3000	2.20 (55.88)	0.50 (12.70)	0.75 (19.05)		FNAHSL
<b>1.00, 1.50, 1.80 &amp; 2.00 ML VIAL / TUBE</b>									
▲	N/A	PTL-84-499	THT-125-499-3	500 / 3000	0.90 (22.86)	0.50 (12.70)			FNA
X	N/A	N/A	THT-126-499-3	N/A / 3000	0.90 (22.86)	0.50 (12.70)		0.50 (12.70)	FNA
X	N/A	PTL-98-499	N/A	500 / N/A	1.00 (25.40)	0.375 (9.52)		0.375 (9.52)	FNA
▶	12.0 mm	PTL-76-461	THT-133-461-3	100 / 3000	1.625 (41.28)	0.60 (15.24)	1.00 (25.40)		FNAH L
▶	13 mm	PTL-86-461	THT-153-461-3	100 / 3000	2.625 (66.68)	0.60 (15.24)	0.60 (15.24)		FNAHSL
▶	13.0 mm	PTL-75-427	THT-131-427-3	100 / 3000	2.625 (66.68)	1.00 (25.40)	1.00 (25.40)		FN S
▶	13.0 mm	BPTL-75-461	N/A	1000 / N/A	2.625 (66.68)	1.00 (25.40)	1.00 (25.40)		FNAHSL
▶	13.0 mm	PTL-75-461	THT-131-461-3	100 / 3000	2.625 (66.68)	1.00 (25.40)	1.00 (25.40)		FNAHSL
▶	13.0 mm	PTL-75-461YL	N/A	100 / N/A	2.625 (66.68)	1.00 (25.40)	1.00 (25.40)		FNAHSL
<b>4.00-8.00 ML VIAL / TUBE</b>									
▶	13.0 mm	PTL-75-427	THT-131-427-3	100 / 3000	2.625 (66.68)	1.00 (25.40)	1.00 (25.40)		FN S
▶	13.0 mm	PTL-75-461	THT-131-461-3	100 / 3000	2.625 (66.68)	1.00 (25.40)	1.00 (25.40)		FNAHSL
▶	13.0 mm	PTL-75-461YL	N/A	100 / N/A	2.625 (66.68)	1.00 (25.40)	1.00 (25.40)		FNAHSL
▶	13.0 mm	PTL-86-461	N/A	100 / 3000	2.625 (66.68)	1.00 (25.40)	1.00 (25.40)		FNAHSL
<b>12.00-24.00 ML VIAL / TUBE</b>									
▲	N/A	PTL-29-499	N/A	500 / N/A	1.50 (38.10)	0.50 (12.70)			FNA
▲	22.6 mm	PTL-77-461	THT-134-461-3	100 / 3000	3.50 (88.90)	1.50 (38.10)	1.25 (31.75)		FNAHSL
▲	29 mm	N/A	THT-139-461-2	N/A / 2000	5.25 (133.35)	1.00 (25.40)	1.00 (25.40)		FNAHSL



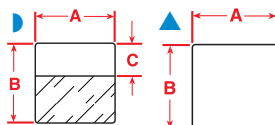
## VIAL TOP LABELS

Diagram	TLS2200® Part Number	Thermal Transfer Part Number	Pieces Per Package TLS / THT	Label Width Inch (mm) A	Label Height Inch (mm) B	Label Diameter Inch (mm) C	Recommended for use in
<b>0.50 TO 1.50 ML VIAL/TUBE</b>							
●	PTL-82-499	THT-143-499-3	500 / 3000	0.375 (9.52) dia.			FNA
●	PTL-82-499YL	N/A	500 / N/A	0.375 (9.52) dia.			FNA
X	PTL-98-499	N/A	500 / N/A	1.00 (25.4)	0.375 (9.52)	0.375 (9.52) dia.	FNA
<b>2.00 TO 50.00 ML VIAL/TUBE</b>							
●	PTL-83-499	THT-144-499-3	500 / 3000	0.50 (12.70) dia.			FNA
●	PTL-83-499YL	N/A	500 / N/A	0.50 (12.70) dia.			FNA
X	N/A	THT-126-499-3	N/A / 3000	0.90 (22.86)	0.50 (12.70)	0.50 (12.70) dia.	FNA

# LABORATORY IDENTIFICATION LABELS

CONTINUED

- F** Freezer environment
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## SLIDE LABELS

Diagram	TLS2200® Part Number	Thermal Transfer Part Number	Pieces Per Package TLS / THT	Label Width Inch (mm) A	Label Height Inch (mm) B	Write-On Area Inch (mm) C	Wrap Around Length	Recommended for use in
▲	PTL-80-424	N/A	250 / N/A	0.75 (19.05)	0.90 (22.86)			F
▲	PTL-80-488	THT-140-488-3	250 / 3000	0.75 (19.05)	0.90 (22.86)			F A
▲	PTL-97-488	THT-141-488-3	250 / 3000	0.90 (22.86)	0.90 (22.86)			F A
▶	PTL-79-461	N/A	100 / N/A	3.75 (95.25)	0.75 (19.05)	1.00 (25.4)		F N A H S L
▲	N/A	THT-10-427	N/A / 3000	3.75 (95.25)	1.00 (25.40)	1.00 (25.40)		F N S



## WELL PLATE LABELS

Diagram	TLS2200® Part Number	Thermal Transfer Part Number	Pieces Per Package TLS / THT	Label Width Inch (mm) A	Label Height Inch (mm) B	Recommended for use in
▲	PTL-81-488	N/A	750 / N/A	1.90 (48.26)	0.25 (6.35)	F A
▲	PTL-81-499	N/A	750 / N/A	1.90 (48.26)	0.25 (6.35)	F N A
▲	PTL-2-423	THT-15-423-10	100 / 10,000	2.00 (50.80)	0.25 (6.35)	F A
▲	N/A	THT-151-499-3	N/A / 3000	2.00 (50.80)	0.25 (6.35)	F N A
▲	N/A	THT-142-423-2.5	N/A / 2500	2.50 (63.50)	0.20 (5.08)	F A



## BOTTLE TAMPER SEALS

### Tamper-Evident Labels

Diagram	TLS2200® Part Number	Pieces Per Package	Label Width Inch (mm) A	Label Height Inch (mm) B	Recommended for use in
▲	PTL-17-351	500	1.00 (25.40)	0.50 (12.70)	F
▲	PTL-20-351	100	2.00 (50.80)	1.00 (25.40)	F
▲	PTL-31-351	250	1.50 (38.10)	1.00 (25.40)	F
▲	PTL-37-351	100	3.00 (76.20)	1.90 (48.26)	F

# BRADY PRINTERS

## ▶ PORTABLE PRINTER



### TLS2200® Thermal Transfer Printer

- ▶ Handheld, stand alone and PC compatible
- ▶ 200 dpi
- ▶ Recommended for printing less than 500 labels per day
- ▶ Easy to serialize or print multiple labels
- ▶ Stand alone only code 3 of 9 bar codes / with PC codes 3 of 9, 128, UPC

## ▶ BENCH/DESKTOP PRINTERS



### TLS PC Link™ Thermal Transfer Printer

- ▶ Transportable / able to hook up to a PC
- ▶ Packaged with LabelMark Label Design Software
- ▶ 200 dpi
- ▶ Recommended for printing less than 500 labels per day



### Bradyprinters™ 200MVP, 300MVP, 2461, 3481 or 6441

- ▶ Benchtop printer - PC driven
- ▶ 203, 300 and 600 dpi
- ▶ Recommended for large volume of labels printed per day
- ▶ All common bar codes including two-dimensional bar codes



### LabelMark™ & Codesoft™

- ▶ Easy to design and print labels using thermal transfer and other Windows compatible printers
- ▶ Includes all types of bar codes (Codesoft 6 provides 2D symbologies)
- ▶ Enhanced serializing, graphics and data importing capabilities
- ▶ Powerful, programmable and easy to use
- ▶ Can be integrated with your LIMS system to print labels on demand

**BRADY**  
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