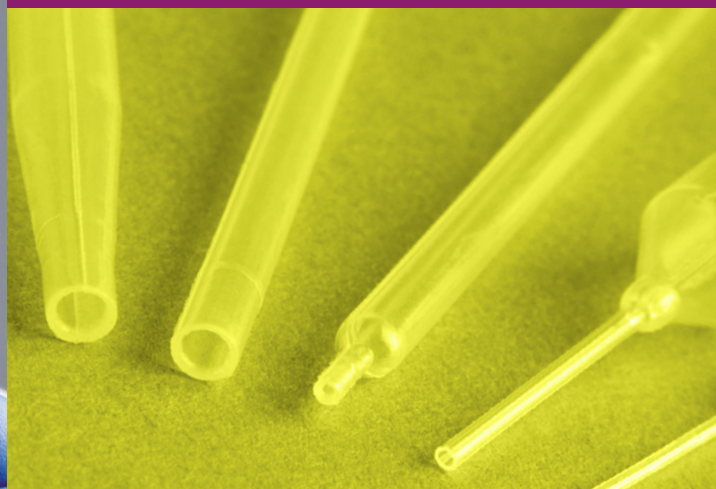




**Thermo Scientific**  
Samco Transfer Pipettes



**Precisely**  
what you need

**ДИАМ**  
современная лаборатория

[www.dia-m.ru](http://www.dia-m.ru)  
бизнес ОИ-Elite

**Thermo**  
SCIENTIFIC

# Application Guide

## LIFE SCIENCE APPLICATIONS

Top 9 Pipettes: 6, 13, 15, 20, 23, 24, 25, 26, 27

### Cells in Flasks and Tubes – large volume, long pipettes

subculturing, harvesting, sampling 15, 50, 100 mL tubes and flasks	26, 27
remove supernatant and media from cell cultures	26, 27
wash cells	26, 27
post-centrifugation to remove all cell layers	26, 27

### Isolating cells – large aperture pipette

prevent cells from getting stripped when removed or transferred	6, 6a, 20, 20a
triturate cells	6, 6a, 20, 20a
isolate platelets from blood and wash	6, 6a, 20, 20a

### Technique Control – narrow stem, exact volume and fine tips

loading gels	13, 15, 23, 24, 27a thru 34
PCR work	13, 15, 23, 24
DNA sample removal	13, 15, 23, 24
feed hybridomas	13, 15, 23, 24, 27a thru 34
protein assays	13, 15, 23, 24, 27a thru 34
lipid extractions	13, 15, 23, 24, 27a thru 34
atomic absorption spectroscopy-reagent prep	13, 15, 23, 24, 27a thru 34
dropwise additions to culture plates	13, 15, 23, 24

### Eliminate Steps – large bulb, narrow stem Sedi-Pet

reaction chamber	10a, 23, 24, 25
storage ampule	10a, 23, 24, 25
portable aliquoting	10a, 23, 24, 25
pre-mix, collect, heat-seal, freeze, store, or incubate and dispense:	10a, 23, 24, 25
- reagents buffer solutions	
- protozoa, nematode larvae, marine eggs, seeds	
- anti-serum urine	

## INDUSTRIAL, RESEARCH AND TESTING

Top 13 Pipettes: 3, 7, 9, 10, 10a, 11, 13, 14, 15, 20a, 25, 26, 27

### Chromatography

sample preparation for: LC, GC, HPLC, TLC	
using 1 mL auto-sampler vials	7, 8, 13, 14, 15, 16, 24
using 2mL auto-sampler vials	9, 15
layering in columns / transfers in columns	26, 27
loading gels	13, 16

### Viscous liquid samples and transfers

creams	6, 6a, 20, 20a
oils	6, 6a, 20, 20a
perfumes	6, 20, 20a
beverages	6, 6a, 20, 20a
industrial slurries	6, 6a, 20, 20a
paints	6, 6a, 20, 20a
food	6, 6a, 20, 20a

### Field Testing

water sampling	24, 27
pre-filled with KCL and buffers	24, 27

### pH Meter Maintenance

adding acids or bases	7
remove and replace electrode fill solutions	11

### Spectrophotometry Cuvettes

reaches bottom of semi-microcuvettes; will not scratch expensive glass or quartz cells	25
--	----

### Reagent Handling

portable ampule	24, 25
spreading and mixing	18, 19, 20
slide tests	9, 9a, 10, 10a, 11, 19

## CLINICAL APPLICATIONS

Top 13 Pipettes: 5, 6, 10, 10a, 11, 14, 18, 19, 20, 24, 25, 26, 27

### Blood Banking

rapid transfers (3.5 cc's in one squeeze)	2a, 2b, 3a, 4, 5, 6a, 9a, 10, 10a
narrow barrel fits tubes and donor bag tubing	2a, 2b, 3a, 4, 5, 6a, 9a, 10, 10a
controlled drop size	4, 5, 10
calibrated transfers	4, 5, 10

### Remove, Dispense Small Volumes

remove and separate serum and blood	11, 14 and other fine tips
dispense small drops - pediatric samples - load hemocytometers	11, 14 and other fine tips
transfer in and out of multi-well plates	11, 14 and other fine tips

### Sedimentation and Storage

sedimentation	22, 24
access to Wintrobe tubes	24
fill, heat-seal and store or aliquot reagents, anti-serum, urine, etc.	2, 3a, 9, 10a, 20a, 24, 25

### Bottle Sampling

culture bottles	26, 27
-----------------	--------

### Slides

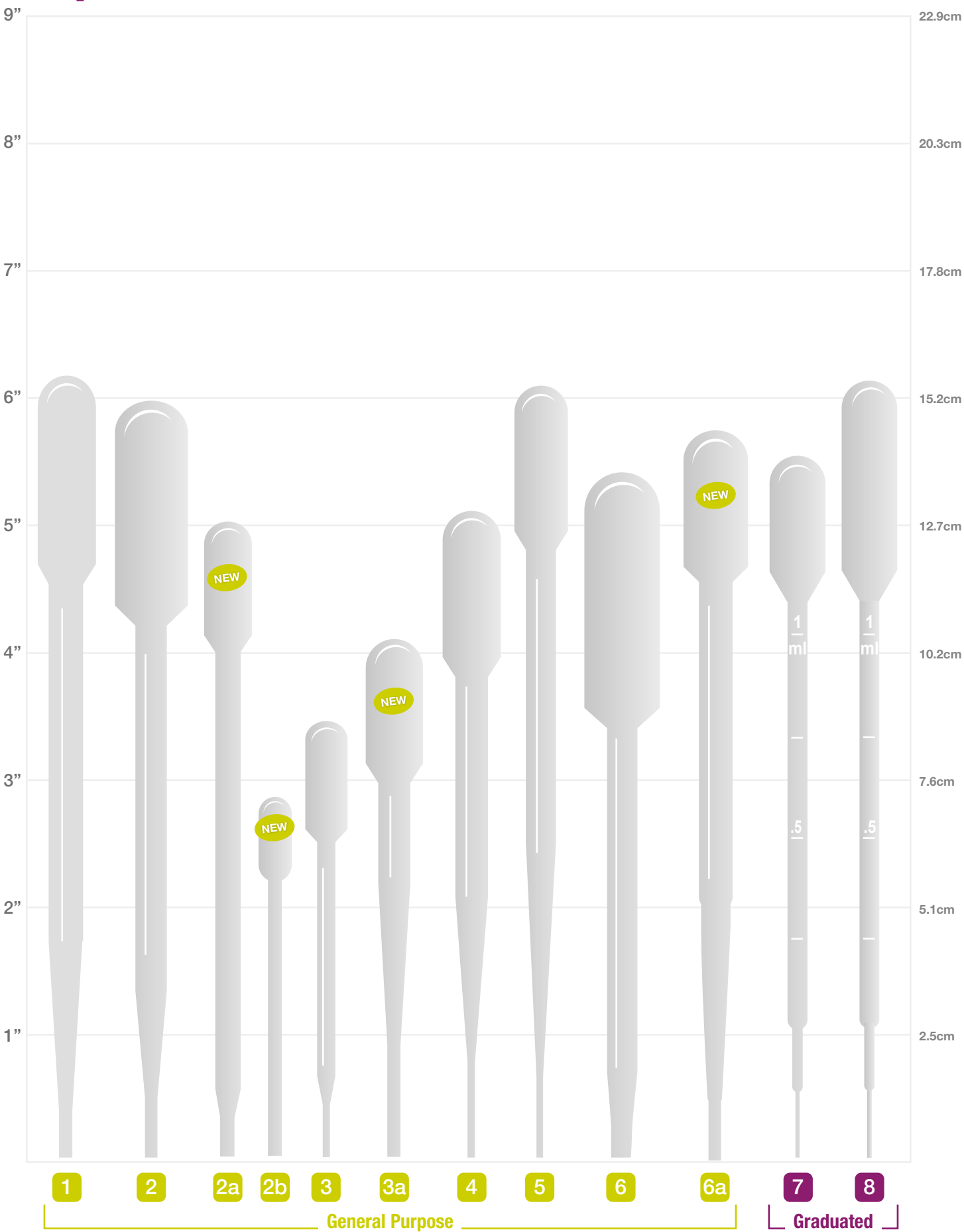
smear samples	18, 19, 20
mix and spread reagents	18, 19, 20

### Funnels / Filters / Scoops

cut bulb in half and insert filter	6, 20a
cut bulb at angle for scoop	6, 20a

For pipette selection chart, see inside spread

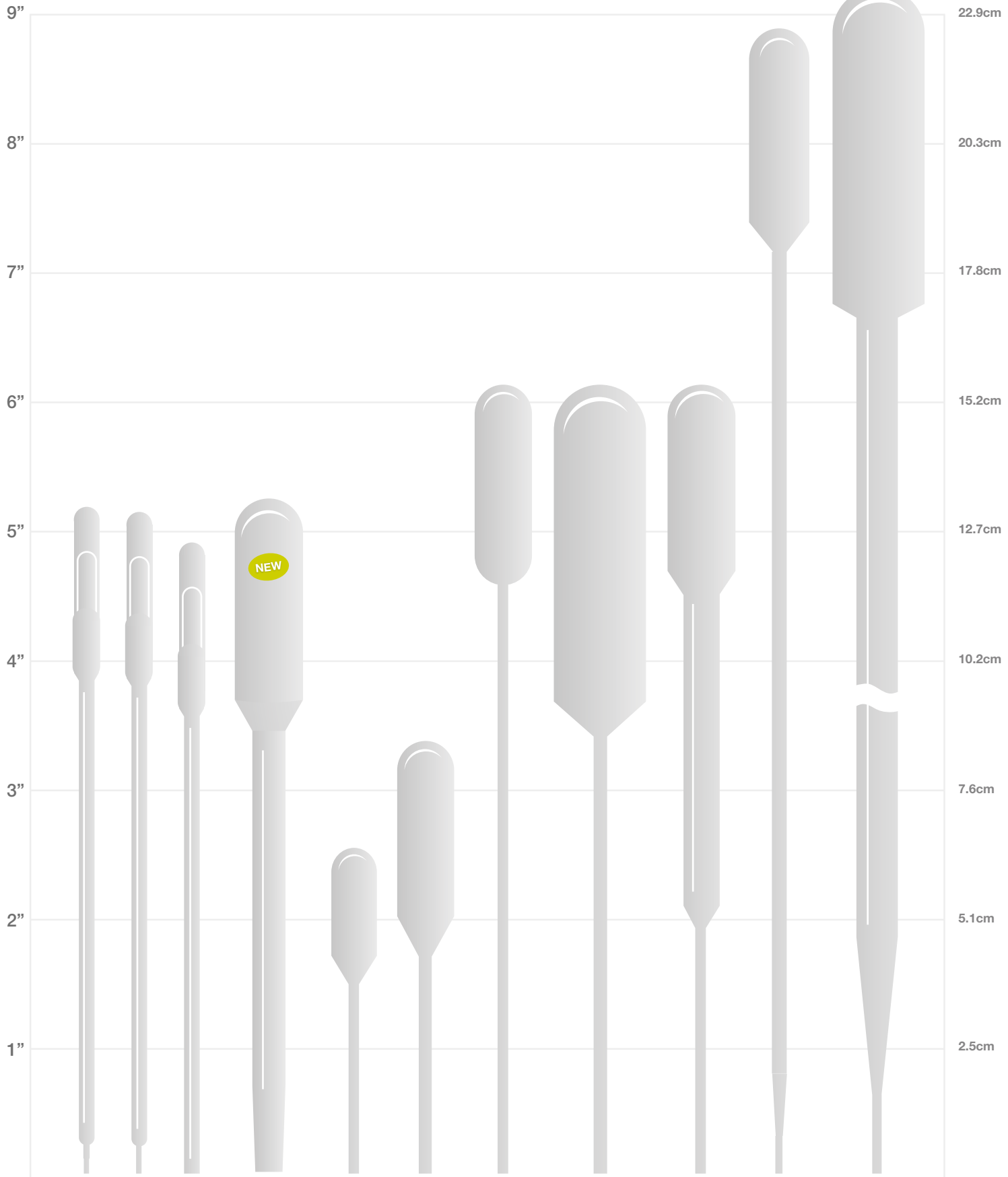
# Pipette Selection Chart



# Pipette Selection Chart



12" / 30.0cm



18

19

20

20a

21

22

23

24

25

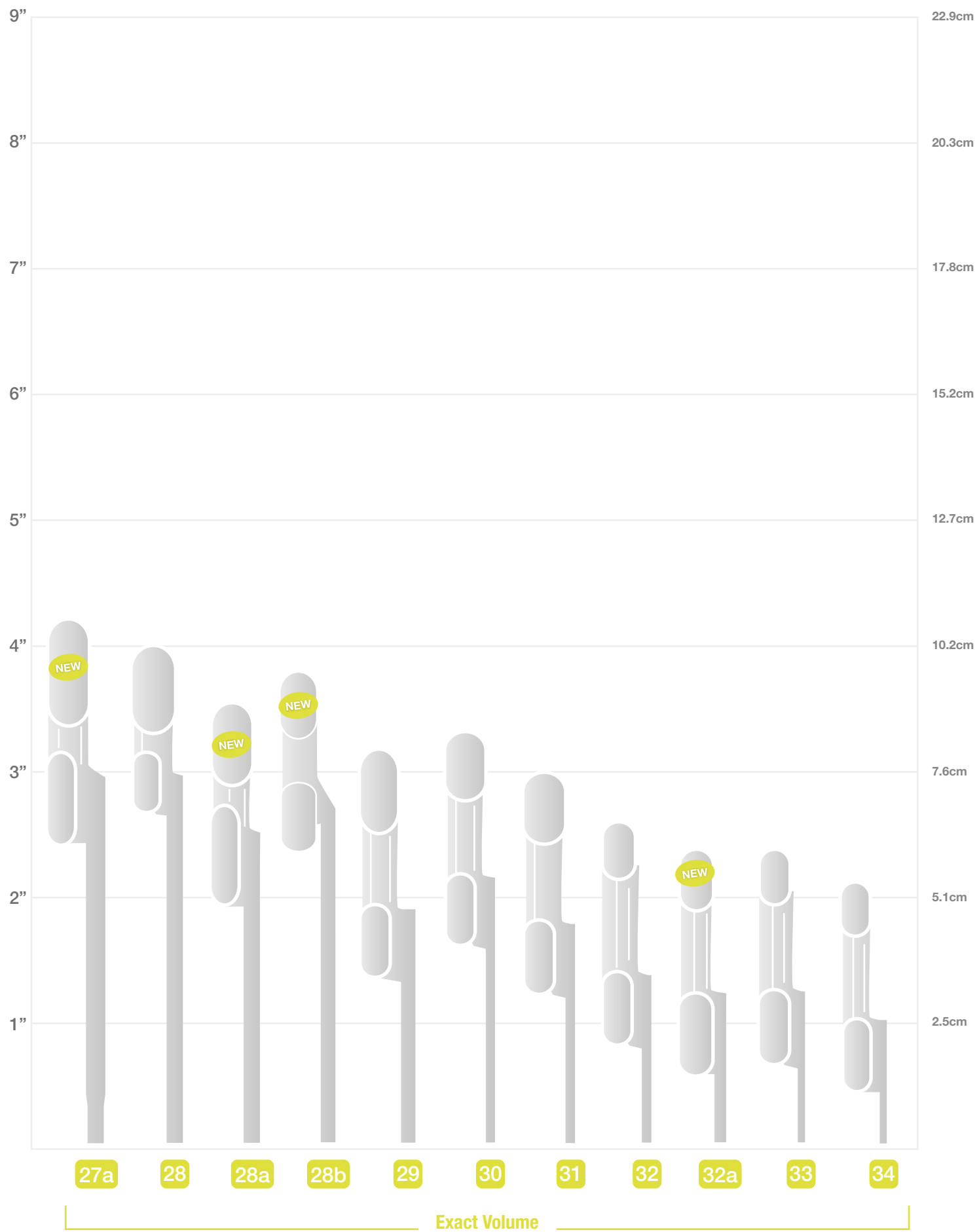
26

27

Special Purpose

Narrow Stem

Extra Long



# Product Specifications

## General Purpose and Thermo Scientific™ B/B Pet™ Pipettes

Key#	Cat.No.	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (mL)	Bulb Draw (mL)	Drops per mL	Quantity per Pack	Quantity per Case	Sterile Pipettes	
										Individually wrapped	20 per pack
<b>1</b>	202	General Purpose Standard	15.6	7.9	7.7	3.0	21	500	5,000	202-1S	202-20S
<b>2</b>	204	General Purpose Large Bulb	15.1	6.1	8.6	4.7	21	400	4,000	204-1S	204-20S
<b>2a</b>	325-11	General Purpose, Small Bulb	12.7	2.5	13.7	7.4	24	500	5,000	X	X
<b>2b</b>	281NL	General Extra Small Bulb	7.2	3.3	0.6	0.3	X	500	4,000	X	X
<b>3</b>	273	General Purpose 3"	8.7	4.8	1.8	0.9	26	500	4,000	273-1S	273-20S
<b>3a</b>	334-11	General Purpose, 4" B/B Pet (Blood Bank)	10.3	2.5	3.1	2.2	22	400	4,000	X	X
<b>4</b>	335	5" B/B-Pet (Blood Bank)	12.9	6.6	7.5	2.8	24	400	4,000	335-1S	335-20S
<b>5</b>	336	6" B/B Pet (Blood Bank)	15.4	6.6	4.9	1.8	24	500	5,000	336-1S	336-20S
<b>6</b>	691	62 µL Large Aperture Pipette	13.7	6.1	9.5	6.2	20	250	2,500	691-1S	691-20S
<b>6a</b>	B75-100	General Purpose, Beral	14.5	2.8	5.5	2.4	22	500	5,000	X	X

## Graduated Pipettes

Key#	Cat.No.	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (mL)	Bulb Draw (mL)	Drops per mL	Quantity per Pack	Quantity per Case	Sterile Pipettes	
										Individually wrapped	20 per pack
<b>7</b>	212	Graduated 1 mL Small Bulb	14.0	4.7	3.9	2.1	25	500	5,000	212-1S	212-20S
<b>8</b>	222	Graduated 1 mL Large Bulb	15.5	4.6	5.8	3.5	25	500	5,000	222-1S	222-20S
<b>9</b>	225	Graduated 3 mL Large Bulb	15.5	7.9	7.7	3.2	21	500	5,000	225-1S	225-20S
<b>9a</b>	718	Graduated 1 mL, Large Bulb	15.2	2.8	5.8	4.3	20	500	5,000	X	X
<b>10</b>	274	Graduated 2 mL (Blood Bank)	15.2	7.1	4.6	1.8	25	500	5,000	274-1S	274-20S
<b>10a</b>	728NL	Graduated 5 mL Large Bulb	21.7	3.0	13.7	7.4	19	250	2,500	728NL-1S	728NL-20S
<b>11</b>	282	Graduated 0.3 mL (Pediatric)	11.6	3.0	1.5	0.8	22	500	4,000	282-1S	282-20S

## Fine Tip Pipettes

Key#	Cat.No.	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (mL)	Bulb Draw (mL)	Drops per mL	Quantity per Pack	Quantity per Case	Sterile Pipettes	
										Individually wrapped	20 per pack
<b>12</b>	232	Fine Tip Standard	14.7	4.6	5.8	3.3	53	500	5,000	232-1S	232-20S
<b>13</b>	234	Fine Tip Large Bulb	14.7	6.1	8.9	4.8	45	400	4,000	234-1S	234-20S
<b>14</b>	231	Extended Fine Tip Small Bulb	10.4	3.0	1.7	1.0	21	400	3,200	231-1S	231-20S
<b>15</b>	233	Extended Fine Tip Large Bulb	15.3	3.0	5.4	3.1	50	250	2,000	233-1S	233-20S
<b>16</b>	235	Extended Fine Tip Standard	15.7	4.6	5.8	3.7	50	500	5,000	235-1S	235-20S
<b>17</b>	243	Fine Tip Small	5.1	1.2	1.6	1.0	34	500	4,000	—	—

\* Not standard; sterile product available upon request

## Special Purpose Thermo Scientific™ Padl-Pet™ Pipettes

Key#	Cat.No.	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (mL)	Bulb Draw (mL)	Drops per mL	Quantity per Pack	Quantity per Case	Sterile Pipettes	
										Individually wrapped	20 per pack
<b>18</b>	292	Padl-Pet 25 µl Drop Size	13.1	3.8	1.0	0.2	—	500	4,000	*	*
<b>19</b>	293	Padl-Pet 30 µl Drop Size	13.0	3.8	1.0	0.2	—	500	4,000	*	*
<b>20</b>	295	Padl-Pet 50 µl Drop Size	12.4	3.6	0.8	0.2	—	500	4,000	*	*
<b>20a</b>	993	Samco Slurry Transfer Pipette	13.2	5.1	7.5	3.3	13	450	4,500	*	*

## Narrow Stem Thermo Scientific™ SEDI-PET™ and Q-Pet™ Pipettes

Key#	Cat.No.	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (mL)	Bulb Draw (mL)	Drops per mL	Quantity per Pack	Quantity per Case	Sterile Pipettes	
										Individually wrapped	20 per pack
<b>21</b>	241	SEDI-PET Short Stem	6.4	2.5	1.3	0.8	26	500	4,000	241-1S	241-20S
<b>22</b>	242	SEDI-PET Short Stem Large Bulb	8.5	2.5	4.3	3.1	24	500	5,000	242-1S	242-20S
<b>23</b>	251	SEDI-PET Standard	15.5	2.5	4.5	3.3	26	500	5,000	251-1S	251-20S
<b>24</b>	252	SEDI-PET Large Bulb	15.5	3.0	15.3	11.6	19	250	2,500	252-1S	252-20S
<b>25</b>	694	Q-Pet Transfer Pipette	15.5	8.0	6.9	3.2	31	500	5,000	694-1S	694-20S

## Extra Long Pipettes

Key#	Cat.No.	Product Description	Length (cm)	Stem Diameter (mm)	Overall Capacity (mL)	Bulb Draw (mL)	Drops per mL	Quantity per Pack	Quantity per Case	Sterile Pipettes	
										Individually wrapped	20 per pack
<b>26</b>	262	Extra Long 9"	22.5	5.0	5.6	2.3	25	400	4,000	262-1S	262-20S
<b>27</b>	263	Extra Long 12"	30.0	8.6	24.1	10.7	20	100	1,000	263-1S	263-20S

## Exact Volume\* Pipettes

Key#	Cat.No.	Product Description	Length (cm)	Stem Diameter (mm)	Dispense Volume (µL)	Quantity per Pack	Quantity per Case
<b>28</b>	191NL	Exact Volume*	10.2	3.0	250	500	5,000
<b>28a</b>	941NL	Exact Volume*	8.89	3.0	200	500	5,000
<b>28b</b>	966NL	Exact Volume*	9.5	3.6	300	500	5,000
<b>29</b>	788NL	Exact Volume*	8.0	3.0	150	500	5,000
<b>30</b>	787NL	Exact Volume*	8.3	2.5	100	500	5,000
<b>31</b>	786NL	Exact Volume*	7.5	2.5	80	500	5,000
<b>32</b>	785NL	Exact Volume*	6.5	2.5	60	500	5,000
<b>32a</b>	930NL	Exact Volume*	5.9	2.5	50	500	5,000
<b>33</b>	784NL	Exact Volume*	5.9	2.3	40	500	5,000
<b>34</b>	783NL	Exact Volume*	5.3	2.0	20	500	5,000

### Exact Volume\* Pipette

- Polyethylene
- Useful for small samples or dispensing reagents
- Ideal for home and POC testing
- Useful in clinical laboratories
- OEM applications
- Custom design options available to meet your exact specifications

\*Note: Exact Volume is the name of this group of transfer pipettes. These conveniently dispense a precise volume within a tolerance.





# Yesterday, today and tomorrow

Thermo Scientific™ Samco™ transfer pipettes have been the industry leaders for over 35 years...

## Design


- Grips easily with latex gloves – no slipping
- Clear graduated markings
- Fine tip accuracy
- Packaging materials greatly reduce airborne mold spores from entering testing areas

## Repeatable Results

- Inert, nontoxic Polyethylene
- Manufactured without mold release agents that could interfere with test results

## Confidence

- State of the art tool room produces largest variety of Transfer pipettes in the industry
- Precision-cut tips deliver a uniform drop size
- Controlled processes produce a uniform bulb with uncompromised integrity
- Certified ISO 13485:2003



For product information and samples, please contact your Sales Representative or call Customer Service at

**1.800.995.2787**



**Yesterday, today**  
**and tomorrow**

**Thermo**  
S C I E N T I F I C

A Thermo Fisher Scientific Brand

**000 «Диаэм»**

**Москва**

ул. Магаданская, д. 7, к. 3 ■ тел./факс: (495) 745-0508 ■ [sales@dia-m.ru](mailto:sales@dia-m.ru)

**[www.dia-m.ru](http://www.dia-m.ru)**

**Новосибирск**  
пр. Академика  
Лаврентьева, д. 6/1  
тел.  
(383) 328-0048  
[nsk@dia-m.ru](mailto:nsk@dia-m.ru)

**Казань**  
ул. Парижской  
Коммуны, д. 6  
тел.  
(843) 210-2080  
[kazan@dia-m.ru](mailto:kazan@dia-m.ru)

**С.-Петербург**  
ул. Профессора  
Попова, д. 23  
тел.  
(812) 372-6040  
[spb@dia-m.ru](mailto:spb@dia-m.ru)

**Ростов-  
на-Дону**  
пер. Семашко, д. 114  
тел.  
(863) 303-5500  
[rnd@dia-m.ru](mailto:rnd@dia-m.ru)

**Пермь**  
Представитель  
тел.  
(342) 202-2239  
[perm@dia-m.ru](mailto:perm@dia-m.ru)

**Воронеж**  
Представитель  
тел.  
(473) 232-4412  
[voronezh@dia-m.ru](mailto:voronezh@dia-m.ru)

**Армения**  
Представитель  
тел.  
(094) 01-0173  
[armenia@dia-m.ru](mailto:armenia@dia-m.ru)

**Узбекистан**  
Представитель  
тел.  
(90) 354-8569  
[uz@dia-m.ru](mailto:uz@dia-m.ru)