

Špičky Thermo Scientific ART

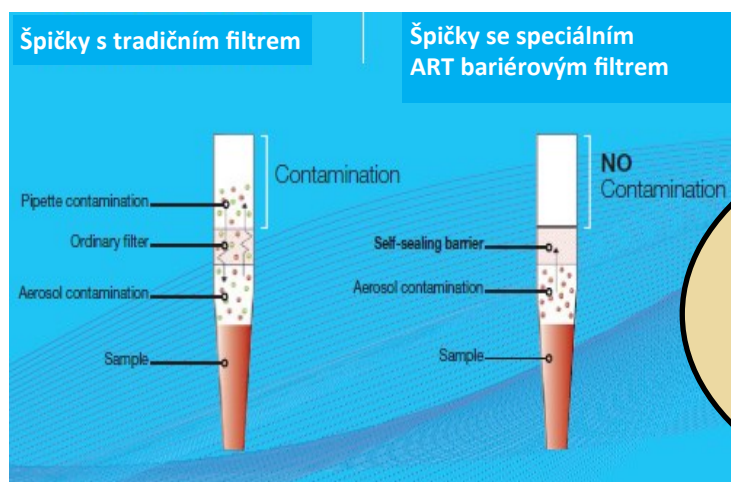
nesmáčivé (Low Retention)

Široká nabídka univerzálních špiček vysoké kvality

- kompatibilní s pipetami různých výrobců
- různá provedení:
- bez filtru / se speciálním bariérovým filtrem (ART Barrier)
- sterilní / nesterilní
- rozsah od 10 µl do 1250 µl

Špičky jsou certifikovány a splňují nejvyšší standardy kvality:

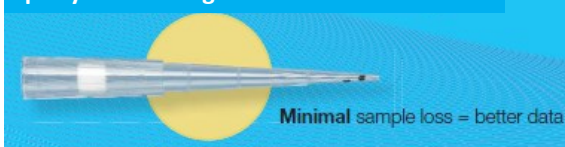
- sterilita (SAL): 10^{-6}
- bez DNase, RNase a ATP, lidské DNA, bez přítomnosti PCR inhibitorů a pyrogenů



Standardní špičky



Špičky s technologií Low Retention



Low Retention Technology

- špičky s vnitřním hydrofobním povrchem (**NESMÁČIVÉ**), při pipetování se minimalizují ztráty vzorku, reagensů

Špička s filtrem ART Barrier

- speciální bariérový filtr poskytuje 100% ochranu před kontaminací jak pipety, tak vzorku (aerosolem, kapalinou, značenými radioizotopy, biologickým materiálem)
- potenciální kontaminanty se uvnitř bariérového filtru zachytí / bariérou neprojdou, čímž se zabrání kontaminaci pipety i při nasátí nadměrného množství kapaliny do špičky

Vyberte si kompatibilní špičky pro vaše pipety - využijte selektor špiček na webových stránkách výrobce ThermoFisher Scientific:

Compatible Pipette Tip Selection Tool - Thermo Fisher

- vyberte pipetu (výrobce, typ)
- vyberte variantu pipety fixní nebo nastavitelnou
- zvolte rozsah objemu pipety
- filtrujte z nabídky špiček podle požadovaných vlastností (čistoty, typu balení ...)
- zobrazí se nabídka vhodných dostupných špiček



Špičky s technologií Low Retention (nesmáčivé) - standardní:

Katal.číslo	Popis	Balení	Délka (mm)
10 µL 			
3502-05-HR •	ART 10 LR, Non-Filtered Tip	Racked, Nonsterile, 96 tips/tray, 10 trays/pack, 5 packs/case	31.3
3501-05-HR	ART 10 LR, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	31.3
3502-05-RT*	ART 10 LR, Non-Filtered Tip	Reload Tower, Nonsterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	31.3
3501-05-RT*	ART 10 LR, Non-Filtered Tip	Reload Tower, Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	31.3
3500-05	ART 10 LR, Non-Filtered Tip	Bulk, Nonsterile, 1000 tips/bag, 10 bags/case	31.3 již není v nabídce
2139-05-HR •	ART 10 LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	31.3
2139-05-RT*	ART 10 LR, Barrier Tip	Reload Tower, Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	31.3
10/20 µL 			
3522-05-HR •	ART 20 Ultra-micro, Non-Filtered Tip	Racked, Non-sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	45.7
3521-05-HR	ART 20 Ultra-micro, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	45.7
3522-05-RT*	ART 20 Ultra-micro, Non-Filtered Tip	Reload Tower, Non-Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	45.7
3521-05-RT*	ART 20 Ultra-micro, Non-Filtered Tip	Reload Tower, Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	45.7
3520-05	ART 20 Ultra-micro, Non-Filtered Tip	Bulk, Non-sterile, 1000 tips/bag, 10 bags/case	45.7
2149E-05-HR •	ART 10 Ultra-micro, Barrier Tip	Racked, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	45.7
2149-05-HR •	ART 20 Ultra-micro, Barrier Tip	Racked, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	45.7 již není v nabídce
20 µL** 			
2149P-05-HR •	ART 20 LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	50.7
2149P-05-RT*	ART 20 LR, Barrier Tip	Reload Tower, Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	50.7
200 µL 			
3552-05-HR •	ART 200 LR, Non-Filtered Tip	Racked, Nonsterile, 96 tips/tray, 10 trays/pack, 5 packs/case	50.7
3551-05-HR	ART 200 LR, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	50.7
3552-05-RT*	ART 200 LR, Non-Filtered Tip	Reload Tower, Nonsterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	50.7
3551-05-RT*	ART 200 LR, Non-Filtered Tip	Reload Tower, Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	50.7
3550-05	ART 200 LR, Non-Filtered Tip	Bulk, Nonsterile, 1000 tips/bag, 10 bags/case	50.7
2069-05-HR •	ART 200 LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	58.8
2069-05-RT*	ART 200 LR, Barrier Tip	Reload Tower, Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	58.8
300 µL 			
3772-05-HR •	ART 300 LR, Non-Filtered Tip	Racked, Nonsterile, 96 tips/tray, 10 trays/pack, 5 packs/case	58.4
3771-05-HR	ART 300 LR, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	58.4
3772-05-RT*	ART 300 LR, Non-Filtered Tip	Reload Tower, Nonsterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	58.4
3771-05-RT*	ART 300 LR, Non-Filtered Tip	Reload Tower, Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	58.4
3772-05-B	ART 300 LR, Non-Filtered Tip	Bulk, Nonsterile, 1000 tips/bag, 10 bags/case	58.4 již není v nabídce
2070-05-HR •	ART 300 LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	58.4
2070-05-RT*	ART 300 LR, Barrier Tip	Reload Tower, Sterile, 96 tips/Tray, 10 trays/pack, 5 packs/case	58.4
1000 µL 			
3102-05-HR •	ART 1000 LR, Non-Filtered Tip	Racked, Nonsterile, 96 tips/tray, 8 trays/pack, 4 packs/case	88.9
3101-05-HR	ART 1000 LR, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 8 trays/pack, 4 packs/case	88.9
3102-05-RT*	ART 1000 LR, Non-Filtered Tip	Reload Tower, Nonsterile, 56 tips/Tray, 10 trays/pack, 5 packs/case	88.9
3101-05-RT*	ART 1000 LR, Non-Filtered Tip	Reload Tower, Sterile, 56 tips/Tray, 10 trays/pack, 5 packs/case	88.9
2179-05-HR •	ART 1000 LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 8 trays/pack, 4 packs/case	88.9
2179-05-RT*	ART 1000 LR, Barrier Tip	Reload Tower, Sterile, 56 tips/Tray, 10 trays/pack, 5 packs/case	88.9

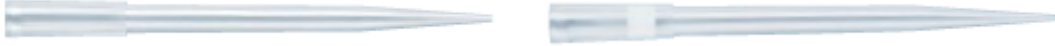


zobrazené špičky

*potřebná prázdná krabička (-RT)

**200µl špičky bez filtru lze použít s většinou pipet objemu 20µl

Špičky s technologií Low Retention (nesmáčivé) - prodloužené

Katal. číslo	Popis	Balení	Délka (mm)
10 µL 			
3512-05-HR •	ART 10 REACH LR, Non-Filtered Tip	Racked, Nonsterile, 96 tips/tray, 10 trays/pack, 5 packs/case	43.4
3511-05-HR	ART 10 REACH LR, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	43.4
3510-05	ART 10 REACH LR, Non-Filtered Tip	Bulk, Nonsterile, 1000 tips/bag, 10 bags/case	43.4
2140-05-HR •	ART 10 REACH LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 10 trays/pack, 5 packs/case	43.3
200 µL 			
3542-05-HR •	ART 200 REACH LR, Non-Filtered Tip	Racked, Nonsterile, 96 tips/tray, 8 trays/pack, 5 packs/case	90.9
3541-05-HR	ART 200 REACH LR, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 8 trays/pack, 5 packs/case	90.9
2160P-05-HR •	ART 200 REACH LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 8 trays/pack, 5 packs/case	90.9
1000 µL 			
3792-05-HR •	ART 1000 REACH LR, Non-Filtered Tip	Racked, Nonsterile, 96 tips/tray, 8 trays/pack, 4 packs/case	118.5
3791-05-HR	ART 1000 REACH LR, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 8 trays/pack, 4 packs/case	118.5
2079-05-HR •	ART 1000 REACH LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 8 trays/pack, 4 packs/case	118.5
1250 µL 			
3152-05-HR •	ART 1250 REACH LR, Non-Filtered Tip	Racked, Nonsterile, 96 tips/tray, 8 trays/pack, 4 packs/case	102.2
3151-05-HR	ART 1250 REACH LR, Non-Filtered Tip	Racked, Sterile, 96 tips/tray, 8 trays/pack, 4 packs/case	102.2
2080-05-HR •	ART 1250 REACH LR, Barrier Tip	Racked, Filtered, Sterile, 96 tips/tray, 8 trays/pack, 4 packs/case	102.2

● zobrazené špičky *potřebná prázdná krabička (-RT) **200µl špičky bez filtru lze použít s většinou pipet objemu 20µl

Prázdné sterilní krabičky, balení 5x10ks: kat.č. 2004-ER (pro 10µl, 20µl bez filtru), kat.č. 2006-ER (pro 20µl B,200µl,300µl), Kat.č. 2004-ER (pro 1000µl)

Certifikovaná kvalita špiček: sterilní; bez DNase, RNase a ATP, lidské DNA, bez přítomnosti PCR inhibitorů a pyrogenů

Sterility Assurance Level (SAL):10⁻⁶

Sterility Assurance Level for sterilized products is ensured by irradiating the product according to ANSI/AAMI/ISO 11137- 2015 guidelines.

Molecular BioProducts Inc., a part of Thermo Fisher Scientific Inc., hereby certifies that these products are manufactured in a controlled environment in accordance with established manufacturing guidelines, quality requirements and product specifications. They are certified, by validation of the manufacturing processes, to be free of the following contaminants:

Pro sterilní i nesterilní špičky:

- Human and mouse DNA (Deoxyribonucleic Acid) : < 30 pg
- Ribonuclease (RNase): < 10-9 Kunitz Units/µl
- Deoxyribonuclease (DNase): < 10-7 Kunitz Units/µl
- PCR Inhibitors: not presentEndotoxin (Pyrogen) < 0.06 EU/ml
- Adenosine-5'-triphosphate (ATP) < 10-13 mg/µl

Nabídka různých typů balení:



Krabička s odklápěcím kloubně připevněným víčkem
Označení **HR (Hinged Rack)**



Jednotlivě balená platíčka se špičkami
Označení **RI (Reload Insert)**



Set Reload špiček - v balení platíčka se špičkami, vč. krabičky
Označení **RT (Reload Towers)**



Krabička s volně nasazeným víčkem
(**Lift off Lid Rack**)
- bez označení

Certificate of product line quality

ART Pipette Tips product family

Thermo Fisher Scientific certifies that the Thermo Scientific® ART® Pipette Tips product family has been manufactured in accordance with established manufacturing guidelines and product specifications*. These products are subject to rigorous quality inspections and conform to the highest internally established quality requirements as well as external standards as listed below. The following quality control criteria apply to the aforementioned product family:



Item	Description	Certified quality	Sterile	Sterile & PCR ready	Forensic ready
Materials	Products are produced with high grade polypropylene resins. Tips are produced with virgin polypropylene resin. Thermo Fisher Scientific does not use any latex or animal-based products or by-products for the manufacturing or packaging of its products	■	■	■	■
Filter tip	A filter within the disposable tip that serves to prevent aerosol contamination when pipetting.			■	■
Functional testing	Products undergo continuous quality controls regarding product function; this includes dimensional checks for visual inspection and functional inspection (weight of liquid).	■	■	■	■
Sterility	For the Sterile products contained in the ART Tip portfolio they are sterilized by E-beam irradiation according to ISO 11137;10* Sterility Assurance Level (SAL); a five (5)-year shelf life from the date of manufacture is recommended; unless specified on the label.		■	■	■
Sterilization dose audit	Audited in accordance with the requirements contained in ISO 11137.		■	■	■
Non-pyrogenic / Endotoxin	Products are tested for the presence of endotoxins using the Limulus Amebocyte Lysate (LAL) gel clot assay according to current FDA regulations. Products with endotoxin levels below 0.06 EU/ml are certified endotoxin-free.	■	■	■	■
Animal components	Bovine spongiform encephalopathy (BSE) and transmissible spongiform encephalopathies (TSE) (EMA 410/01 compliant) regulatory statements. Our suppliers state the following concerning animal origin and TSE/BSE: - When manufacturing the raw material (polypropylene), they do not use or intentionally add any ingredients of animal origin. Therefore the product is to be considered safe to use in food, pharmaceutical, and cosmetic contact applications with respect to TSE/BSE transmissions. - Tallow-derived additives may be used in the manufacturing of the raw material (polypropylene). The specifications of resins are available for more information regarding the additives or any other substances that may be used by the manufacturers. Product specifications may change without notice.	■	■	■	■

*This certification includes only the tips and not the packaging.

Certificate of product line quality

ART Pipette Tips product family (continued)



Item	Description	Certified quality	Sterile	Sterile & PCR ready	Forensic ready
Bisphenol A (BPA) free*	BPA has not been used in the manufacturing process of the plastic in question.	■	■	■	■
Adenosine triphosphate (ATP) free	Products are tested for the presence of ATP using a luciferase-based detection assay. Products with ATP levels below the experimental baseline value are certified ATP-free in the range <10 ⁻¹³ mg/μL.	■	■	■	■
Nucleases	This product is certified to be free of detectable Ribonuclease (RNase) / Deoxyribonuclease (DNase) contamination. This test is performed using the nuclease assay method with a detection limit of 10 ⁻⁹ Kunitz unit/μl for RNase and 10 ⁻⁷ Kunitz unit/μl for DNase.	■	■	■	■
Polymerase chain reaction (PCR) inhibitors	Products are tested for the presence of PCR inhibitors by amplification of a human DNA target sequence. PCR is performed including the appropriate controls and all reactions are analyzed by gel electrophoresis. Test and control reactions must amplify the expected DNA fragment with equivalent yield and purity to verify that the product is free of detectable PCR inhibitors.	■	■	■	■
DNA	Products are tested for DNA contamination using Polymerase Chain Reaction (PCR*). Test reactions, including the appropriate positive and negative controls are prepared with primers specific for human and mouse DNA targets. PCR is performed using the manufacturer's recommended reaction conditions and all PCR products are analyzed by gel electrophoresis. The absence of amplicons in the test reactions indicates that the product is free from detectable DNA contamination. DNA free per the Lower Limit of Detection per <30pg.	■	■	■	■
Validated in the human identification workflow	Exhibits a high degree of accuracy, precision and reproducibility for forensic applications such as DNA quantification, short tandem repeats (STR) amplification, and genotyping assays.				■

*This certification includes only the tips and not the packaging.

Available in Fit for Purpose



ISO 9001
Certified

ISO 14001
Certified

ISO 13485
Certified

Thermo Fisher Scientific, Inc. Quality Management System is certified in accordance with international Quality Management standards. All sites are certified to one or more Quality Management standards; refer to the [Site ISO Certifications](#) for copies of relevant ISO Certifications.

Changes to manufacturing procedures, packaging, and product specifications are documented and traceable. To receive notifications of product changes, register to receive changes through the following link www.thermofisher.com/registercustomersnotifications.

All products are fully traceable by lot number. For a lot-specific certificate, please Contact Us/Technical Support ([Link](#)) and enter the product name or SKU.

For any additional information or inquiries, Contact Us for Support ([Link](#)) and choose the appropriate option.

Ravi Gupta
Vice President/General Manager,
Liquid Handling Solutions
Laboratory Plastics Essentials

Luis Perez
Director, Quality Assurance
Laboratory Products

Learn more at thermofisher.com/fitforpurpose

thermo scientific

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CENTRIFUGY

mikrocentrifugy
malé centrifugy
multifunkční centrifugy
vysokootáčkové centrifugy
velkokapacitní centrifugy
ultracentrifugy



MIKRODESTIČKOVÁ INSTRUMENTACE

spektrofotometry
fotometry
fluorometry, laminometry
dávkoče, promývačky
třepací termostaty pro mikrodestičky
automatické pipetovací stanice



GEL-IMAGING a COLONY COUNTING

gelová dokumentace a analýza
chemiluminiscence, fluorescence
elektroforézy, zdroje pro elfo
počítače kolonií
analýza inhibičních zón



KONCENTRÁTORY VZORKŮ

vakuové centrifugační koncentrátoři
stolní lyofilizátory
velkoobjemové lyofilizátory
vakuové sušárny



MYČKY A AUTOKLÁVY

laboratorní myčky
velkokapacitní myčky
laboratorní autoklávy



PŘÍPRAVA ČISTÉ VODY

reverzní osmóza
deionizační systémy
kompaktní laboratorní systémy
poloprovodní systémy



PIPETY LABORATORNÍ PLASTIK

pipety FinnTimer a ClipTip
kompletní sortiment špiček
dávkoče a pipetovací nástavce
spotřební plastik Nalgene, Nunc
a Matrix
plastik pro environmentální výzkum



BIOHAZARDY, IZOLÁTOŘY LAMINÁRNÍ BOXY

biohazard boxy tř. II
biohazardy tř. III a izolátory
laminární moduly a boxy
digestoře, bezodtahové digestoře
přetlakové i podtlakové izolátory
monitoring prostředí
skříně na chemikálie



BEZODTAHOVÉ DIGESTOŘE

digestoře a vážící boxy
filtrační systémy pro místnosti
monitoring laboratorního prostředí



DEKONTAMINAČNÍ SYSTÉMY H₂O₂

VHP generátory pro dekontaminaci
aerosolové generátory
dekontaminace prostor a zařízení



INKUBÁTORY, TERMOSTATY

CO₂, CO₂ / O₂ inkubátory
termostaty do +100 °C, +300 °C
anaerobní a hypoxické boxy
sušárny do +500 °C
klimatické a růstové boxy
systémy pro monitoring teploty
rozmrazovače plazmy



MRAZICÍ A CHLADICÍ BOXY KRYO BOXY

mrazicí boxy od -86 °C až do -180 °C
řízené zmrazování LN₂ do -180 °C
mrazicí boxy od -5 °C až do -40 °C
chladicí boxy od 0 °C až do +15 °C



CHOV LABORATORNÍCH ZVÍŘAT

IVC individuálně ventilované boxy
chovné nádoby, izolátory
ochranné a přestýlací boxy
mycí a bariérová technologie
komplexní projekty



OSTATNÍ LABORATORNÍ VYBAVENÍ

třepačky a velkokapacitní třepačky
lázně a blokové lázně
homogenizátory a dilutory
peristaltické pumpy a plničky
termoagitační



Dodáním přístroje naše péče nekončí ... jsme již 33 LET S VÁMI 1991 - 2024



autorizovaný servis
validace - IQ/OQ/P
akreditovaná kalibrační laboratoř
TRIGON PLUS
kalibrace měřících řetězců
a indikačních teploměrů

poradenství / projektová řešení
metrologické a preventivní služby
akreditovaná zkušební laboratoř
TRIGON PLUS
měření zařízení s řízenou
čistotou vzduchu

ThermoFisher
SCIENTIFIC

TECNIPLAST
innovation through passion

iwt
TECNIPLAST

Thermo Scientific . Tecniplast . IWT
Alliance Bio Expertise . Arcitko . Baker . Bioair
Bioquell . Devea . Erlab . EuroBioConcept . Evermed
Getinge . HMC Europe . KW Apparecchi Scientifici
Mucedola . Labogene . Tuttnauer . Synbiosys . Syngene

TRIGON PLUS s.r.o.
Západní 93, 251 01 Čestlice
tel.: 272 680 190, mail@trigonplus.cz

www.trigonplus.cz