

Eppendorf Certificate

Certificate of Quality

Results of Mouse Embryotoxicity Test

Eppendorf epT.I.P.S.[®] Biopur[®] pipette tips and Combitips advanced[®] Biopur

Tested products:

- > Combitips advanced[®] 2.5 mL, Biopur[®], order no. 0030 089.650, lot no. D1578390
- > Combitips advanced[®] 25 mL, Biopur[®], order no. 0030 089.685, lot no. D157567N
- > epT.I.P.S.[®] 2 µL – 200 µL, Biopur[®], order no. 0030 075.021, lot no. D158054Q
- > epT.I.P.S.[®] 50 µL – 1,000 µL, Biopur[®], order no. 0030 075.064, lot no. D157726P

The 10 % Serum-Supplemented Minimum Essential Medium (MEM) extract of the tested products was evaluated for its ability to induce a decrease in the number of two-cell mouse embryos developing toward blastocyst stage when compared to the extract in the negative control (MEM supplemented with FBS, antibiotics and L-Glutamine).

To prepare the test product extract, the test products were used at their nominal volume to aspirate and dispense pre-warmed MEM ten times. The negative control extract was prepared similarly with MEM. The positive control (latex tubing) was extracted in MEM at 37 °C (±1 °C) for 24 hours (± 2 h). The extracts of the negative control, positive control and the test products were tested at the neat concentration.

The table on page 2 shows percentage shares of the two-cell embryos being observed as developing after 72 hours of exposure to the test product extract. Concurrently, the positive control prevented growth and development of two-cell embryos thereby validating the functioning of the system.

Under the test conditions employed, the test products did not have an effect on the growth and development of two-cell mouse embryos towards blastocyst stage and are considered non-mouse embryotoxic.

As the indicated values were determined in a one-time measurement, Eppendorf cannot guarantee these values for all formats and batch numbers of epT.I.P.S. pipette tips and Combitips advanced dispenser tips in Biopur purity. As the same raw material and production process is used for the production of all tested products in Biopur purity, similar values can be expected for all formats and batch numbers. The test results indicate to what extent mouse embryos can be observed as developing after 72 hours of exposure to epT.I.P.S. Biopur pipette tips or Combitips advanced Biopur dispenser tips extracts. In case of changes of raw material in the future, Eppendorf will repeat the described test in order to verify the test results.

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	Order no.	Lot no.	Extraction Time			Conclusion
			10 × asp./dis.	4 h ±15 min	24 h ±2 h	
Combitips advanced® 2.5 mL, Biopur®	0030 089.650	D1578390	91 %	100 %	96 %	Product is considered non-mouse embryotoxic
Combitips advanced® 25 mL, Biopur®	0030 089.685	D157567N	91 %	81 %	87 %	Product is considered non-mouse embryotoxic
epT.I.P.S.® 2 µL – 200 µL, Biopur®	0030 075.021	D158054Q	90 %	90 %	87 %	Product is considered non-mouse embryotoxic
epT.I.P.S.® 50 µL – 1,000 µL, Biopur®	0030 075.064	D157726P	96 %	87 %	100 %	Product is considered non-mouse embryotoxic

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Page 2 of 2



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