



Quality Statement

Inspection for Trace Metal

pipetman®

DIAMOND TIPS

Quality Statement

A sample from each lot of PIPETMAN® DIAMOND Tips is tested and inspected. The lot number appearing on the package permits traceability and attests to conformity to the highest standards.

To ensure precision and reproducibility, the Gilson Quality Assurance System focuses on the following critical parameters:

- Flash
- Minimal surface retention of water
- Surface smoothness
- Fine point finish

PIPETMAN DIAMOND Tips are machine molded by an entirely automatic process, and packaged in an isolated, filtered atmosphere. From raw material to packaging, the PIPETMAN DIAMOND Tips are never touched by human hands.

Value in ppb for each PIPETMAN DIAMOND Tip at its nominal volume										
PIPETMAN DIAMOND TIPS	NOMINAL VOLUME (μL)	ALUMINIUM (Al)	CADMIUM (Cd)	CHROMIUM (Cr)	COPPER (Cu)	MERCURY (Hg)	MANGANESE (Mn)	NICKEL (Ni)	LEAD (Pb)	ZINC (Zn)
D10 Quantification limit	10	270 35	<4 4	<4 4	18 17	<1 1	<4 4	<5 5	3 1	<690 690
DL10 Quantification limit	10	550 20	<2 2	<2 2	14 8	<0.5 0.5	<2 2	6 3	1.0 0.5	<330 330
DL10 Quantification limit	20	470 15	<2 2	<2 2	12 7	<0.4 0.4	<2 2	5 2	1.0 0.5	<280 280
D200 Quantification limit	200	130 5	<0.5 0.5	<0.5 0.5	5 3	<0.1 0.1	0.6 0.5	6 1	1.0 0.5	110 100
D300 Quantification limit	300	9 4	<0.4 0.4	<0.4 0.4	<2 2	<0.1 0.1	<0.4 0.4	<0.6 0.6	<0.1 0.1	<80 80
D1000 Quantification limit	1000	11 4	<0.4 0.4	<0.4 0.4	<2 2	<0.1 0.1	<0.4 0.4	<0.6 0.6	<0.1 0.1	<80 80
D1200 Quantification limit	1200	<4 4	<0.4 0.4	<0.4 0.4	<2 2	<0.1 0.1	<0.4 0.4	<0.6 0.6	<0.1 0.1	<90 90
D5000 Quantification limit	5000	22 6	<0.6 0.6	<0.6 0.6	<3 3	<0.2 0.2	<0.6 0.6	<0.9 0.9	<0.2 0.2	<120 120
D10mL Quantification limit	10000	33 4	<0.3 0.3	<0.3 0.3	<2 2	<0.1 0.1	<0.3 0.3	<0.5 0.5	<0.1 0.1	<70 70

Trace Metal Release (Typical Values)

The pipette tips are tested after having soaked in concentrated nitric acid for one hour. The solutions are analyzed by spectrometric techniques ICP-MS (Inductively coupled Plasma/Mass spectrometry).

The values indicated reflect the concentration of the trace element in each PIPETMAN DIAMOND Tip at its nominal volume. The concentrations are expressed in **ppb**.

Accuracy and Precision

Before leaving the factory, PIPETMAN® pipettes are individually calibrated with PIPETMAN DIAMOND Tips.

PIPETMAN pipettes are guaranteed to perform within limits for accuracy and precision when used with PIPETMAN DIAMOND Tips and in accordance with the recommendations of the pipette instruction manual.

PRODUCT DESIGNATION	CATALOG NUMBER	LOT NUMBER
D5000 TIPACK	F161370	EWAX5/15924

www.gilson.com/ContactUs

