



## AN 371

## SIMS Detection Limits of Selected Elements in GaAs Under Normal Depth Profiling Conditions

May 7, 2007 (Version 4.0)

O <sub>2</sub> /SIMS Positive Secondary Ion Detection		Cs/SIMS Negative Secondary Ion Detection		Cs/SIMS Positive Secondary Ion Detection (CsM <sup>+</sup> )	
Element	DL (atoms/cm <sup>3</sup> )	Element	DL (atoms/cm <sup>3</sup> )	Element	DL (atoms/cm <sup>3</sup> )
Be	1E+13	H*	8E+16 - 2E+17	Mg	1E+15
Li	5E+13	Be	1E+14	Zn	1E+15
B	1E+14	B	2E+14	Ar	1E+17
Na	5E+14	C*	5E+15 - 2E+16	Cd	6E+15
Mg	1E+14	N*	1E+16 - 3E+16		
Al	1E+15	O*	1E+16 - 3E+16		
K	5E+14	F	5E+14		
Ca	1E+14	Si	5E+14		
Ti	5E+14	P	1E+16		
Cr	2E+13	S	2E+14		
Fe	2E+14	Cl	2E+15		
Ni	2E+15	Cu	1E+16		
Mn	1E+13	Ge	2E+15		
Co	1E+15	Br	5E+14		
Cu	1E+16	Se	1E+13		
Zn	1E+17	Sb	2E+15		
In	1E+15	Sn	5E+15		
Ag	1E+15	Te	1E+13		
Mo	1E+15	W	7E+16		
W	1E+16	Au	5E+14		

\*Varies with vacuum conditions

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**United States Locations**

Tempe, Arizona  
+1 480 239 0602 info.az@eaglabs.com  
+1 602 470 2655 fax

Sunnyvale, California  
810 Kifer Road  
+1 408 530 3500 info.ca@eaglabs.com  
+1 408 530 3501 fax

1135 E Arques Avenue  
+1 408 738 3033  
+1 408 738 3035 fax

785 Lucerne Drive  
+1 408 737 3892  
+1 408 737 3916 fax

Peabody, Massachusetts  
+1 978 278 9500 info.ma@eaglabs.com  
+1 978 278 9501 fax

Chanhassen, Minnesota  
+1 952 828 6411 info.mn@eaglabs.com  
+1 952 828 6449 fax

East Windsor, New Jersey  
+1 609 371 4800 info.nj@eaglabs.com  
+1 609 371 5666 fax

Syracuse, New York  
+1 315 431 9900 info.ny@eaglabs.com  
+1 315 431 9800 fax

Raleigh, North Carolina  
+1 919 829 7041 info.nc@eaglabs.com  
+1 919 829 5518 fax

Round Rock, Texas  
+1 512 671 9500 info.tx@eaglabs.com  
+1 512 671 9501 fax

**International Locations**

Shanghai, China  
+ 86 21 6879 6088 info.cn@eaglabs.com  
+ 86 21 6879 9086 fax

Tournefeuille, France  
+ 33 5 61 73 15 29 info.fr@eaglabs.com  
+ 33 5 61 73 15 67 fax

Frankfurt, Germany  
+ 49 (0) 693053213 info.de@eaglabs.com  
+ 49 (0) 69307941 fax

Tokyo, Japan  
+ 81 3 5396 0531 info.jp@eaglabs.com  
+ 81 3 5396 1930 fax

HsinChu, Taiwan  
+ 886 3 5632303 info.tw@eaglabs.com  
+ 886 3 5632306 fax

Uxbridge, United Kingdom  
+ 44 (0) 1895 811194 info.uk@eaglabs.com  
+ 44 (0) 1895 810350 fax