

Routine GC maintenance reference schedule

Consumables and when to replace them

Maximize GC and GC-MS system performances, minimize system downtime and troubleshooting.



Liners

Sample type and cleanliness dependent – **weekly**. Inspect daily and replace it when performance degrades (i.e. peak's response, peak shapes), dirt is observed, or weekly.

Recommended cat. no.	Description
10415923/15457980	Split with wool
10253753/15408000	Precision split with wool
10140893/15417990	Splitless without wool
10100993/15447990	Splitless with wool
10639485	Headspace, P&T, SPME fibre
17644145	SPME arrow
15448020	PTV baffled



Liner rings

Replace with **each liner change** or **every 5 liners**.



Base seals

Sample type and cleanliness dependent – **3 to 6 months.** Replace when performance degrades, or dirt is observed, or replace every 3 to 6 months.

Recommended cat. no.	Description
15398384	Split/splitless liner
13415099	PTV liner

Recommended cat. no.	Description
10548605	Splitless injection
10219174	Split or splitless injection



Syringes

Sample type and cleanliness dependent – **3 months**. Inspect before use. Replace when bended, clogged, the contaminants cannot be cleaned, or replace every 3 months. Avoid unnecessary movement of plungers when the syringe is dry.

Recommended cat. no.	Description
10374653	AS/Al autosampler, 10 µL
10781534	AS/Al autosampler, 10 µL, gas tight
17617065	Thermo Scientific™ TriPlus™ RSH SMART autosampler, 10 μL
17637065	TriPlus RSH SMART autosampler, 10µL, gas tight
17677085	TriPlus RSH SMART autosampler, 2.5 mL, headspace



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Septas

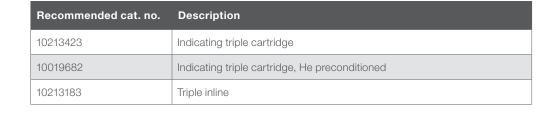
Syringe needle dependent – **weekly**. Replace every 100 injections or weekly.

Recommended cat. no.	Description
12683166	BTO, glass jar
15340431	BTO, blister pack



Gas filters

Gas purity/grade dependent – **6 to 12 months**. Replace when indicating start to change colour, or every **6 to 12 months** if using non-indicating traps.





GC columns

Inspect **weekly**. Replace when it falls below performance requirements (i.e. resolution, retention time, peak symmetry, sensitivity, etc.), or when trimming and/or conditioning no longer recover the performance.

Recommended cat. no.	Description
11800463	Non-polar, i.e., 26099-1420
11810453	Low-polar, i.e., 26096-1420
10280385	Mid-polar, i.e., 26059-3390
10310835	Mid-polar, i.e., 26090-1420
13498018	Mid-polar, i.e., 26072-1420
10468104	Polar, i.e., 26088-1420



Ferrules

Replace when installing columns.

Recommended cat. no.	Description
10756334	Graphite for SSL injectors and non-MS detectors, 0.1-0.32 mm ID column
10756144	Graphite, for PTV injectors, 0.1-0.25 mm ID column
10120513*	Graphite/vespel, for SSL injectors and detectors, 0.1-0.25 mm ID column
1077482*	Graphite/vespel, for SSL injectors and detectors, 0.32 mm ID column
16834316*	SCP-5000, for MS detectors, 0.1-0.25 mm ID column
10466744**	Graphite/vespel, for MS detectors, 0.1-0.25 mm ID column

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