NEW FROM SAMSI · GC INJECTOR PERFORMANCE

SAMSI Tuner FAME & FAEE editions

Is your injector telling the truth? SAMSI Tuner compares your GC results with the theoretical FID response of your methyl or ethyl ester standard and shows at once whether the injector discriminates. No worksheets and no formulas to maintain.

		INPUT			CALCULATED				INPUT		
#	FAME	CARBONS	DOUBLEBONDS	WEIGHT OR W%	ACT C / 1000 G	CALC AREA%	MINIMUM VALUE	MAXIMUM VALUE	GC RESULT	CHECK (±5 %)	
1	C14:0	14	0	1	694.32	**0.952**	0.904	1.000	0.97	OK +1.9 %	Delete
2	C16:0	16	0	10	711.21	**9.752**	9.264	10.239	9.81	OK +0.6 %	Delete
3	C18:0	18	0	6	724.92	**5.964**	5.666	6.262	5.98	OK +0.3 %	Delete
4	C18:1	18	1	25	729.82	**25.017**	23.767	26.268	25.10	OK +0.3 %	Delete
5	C18:1T	18	1	20	729.82	**20.014**	19.013	21.015	20.05	OK +0.2 %	Delete
6	C18:2	18	2	34	734.79	**34.255**	32.542	35.968	34.20	OK -0.2 %	Delete
7	C18:2TT	18	2	2	734.79	**2.015**	1.914	2.116	2.01	OK -0.2 %	Delete
8	C18:3	18	3	1	739.82	**1.014**	0.964	1.065	1.00	OK -1.4 %	Delete
9	C20:0	20	0	0.5	736.28	**0.505**	0.480	0.530	0.49	OK -2.9 %	Delete
10	C22:0	22	0	0.5	745.84	**0.511**	0.486	0.537	0.46	LOW -10.0 %	Delete
			TOTALS	100.00		100.000			100.070		

FAME edition shown. Area% indicator with Nu-Chek Prep GLC-67: nine components inside the ±5 % window, while the heaviest ester, C22:0, reads 10 % low, a classic sign of injector discrimination.

Theory built in

Calculates the expected area% from each ester's active carbon, the part of the molecule the FID actually responds to.

Answers at a glance

Every component gets a ±5 % window, a gauge and a clear OK, Low or High, so problems stand out immediately.

Standards and results in one click

Pick a Nu-Chek Prep standard by code and import GC results straight from an Excel or CSV report.

TWO EDITIONS

FAME

FEBRUARY 2027

Fatty acid methyl esters

For vegetable oils, fats and marine oils analysed as methyl esters. Includes the Nu-Chek Prep standards library.

FAEE

FEBRUARY 2027

Fatty acid ethyl esters

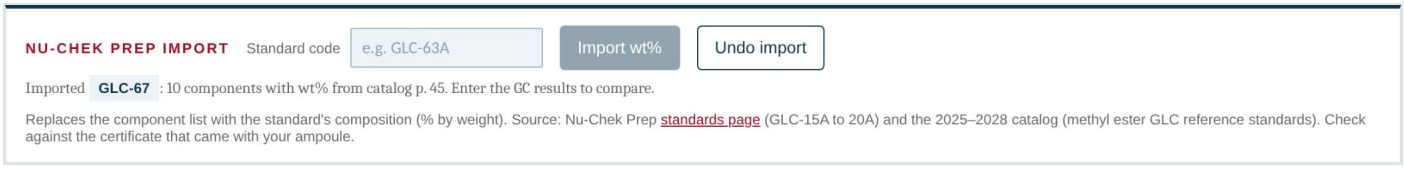
For ethyl ester products such as omega-3 EPA/DHA concentrates. Internal standard as ethyl or methyl ester.

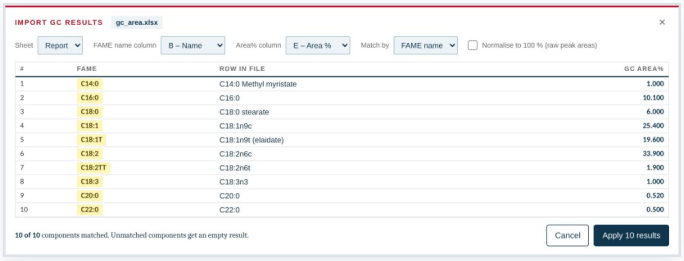
WHAT IT DOES · SCREENSHOTS FROM THE FAME EDITION

From standard to verdict in minutes

Nu-Chek Prep library (FAME)

Type a code such as GLC-63A or 68D and the weight-% composition fills in. Over 140 methyl ester reference standards.





Import GC results from Excel

Load the .xlsx or .csv export from your data system. Peaks are matched by name, including cis/trans isomers, and you approve a preview before anything changes.

Response factor indicator

Set your internal standard, for example C23:0, and compare empirical response factors from COMPASS (multiplier) or Ph. Eur. (divisor) with theory. In the FAEE edition the internal standard can be an ethyl or a methyl ester.



Windows desktop app and Excel reports

Installs with a SAMSI icon on the desktop, no administrator rights needed, and works offline. Export each check as a formatted Excel file with live formulas for your records.

CHOOSE YOUR EDITION

	FAME edition	FAEE edition
Compound class	Fatty acid methyl esters	Fatty acid ethyl esters
Typical samples	Vegetable oils, fats, marine oils	Omega-3 EPA/DHA ethyl ester concentrates
Internal standard	Methyl ester	Ethyl or methyl ester
Standard composition	Nu-Chek Prep library or certificate	From your certificate
Availability	**February 2027**	**February 2027**
Price	[PRICE]	[PRICE]

Ask for a demo or a quote
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