



Evaluation of Wort Boiling Systems

Performance Package: Analyze, Evaluate, Optimize

Everything you've always wanted to know about your wort boiling system:

- "How gentle is the boiling process? Is the increase in the thiobarbituric acid index (TBI) or the decrease in the coagulable nitrogen relatively slow or rapid?"
- "How effective is the degradation of DMS-P or the vaporization of free DMS?"
- "How does the wort quality of my wort boiling system compare to others?"

Fine-tuning the duration of the wort boiling process:

- "What does reducing the duration of the boiling process by 10 min achieve?"
- "How long must I boil to bring the total DMS down below 100 µg/l by the end of the boil – how does this affect TBI and coagulable N?"

We have answers to these questions!

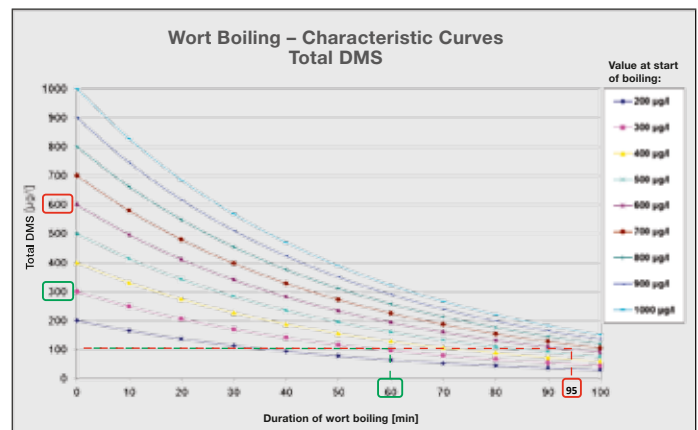
- We only require two wort samples, one from the beginning and another from the end of the boil (0.5 liters each), and the duration of the wort boiling process.
- You will receive comprehensive information about the quality of your wort boiling system and – if necessary – ideas on how to adjust the boiling process.



From traditional to modern – all wort boiling systems can be compared in terms of quality.

Example: (in an actual report free, DMS, total DMS, TBI and residual coag. N will be evaluated)

Your System	Free DMS µg/l	DMS-P µg/l	Total DMS µg/l	TBI	Residual coag. N mg/100ml
Boiling – start	263.0	281.0	544.0	27.7	5.7
Boiling – end	7.0	90.0	97.0	42.7	3.1
	HLP	HLP	HLP	DP	HLP
Half-life period /	minutes	minutes	minutes	minutes	minutes
Doubling period	11.5	36.5	24.1	96.1	68.3
All Systems					
Mean	*	*	*	*	*
Standard deviation	*	*	*	*	*
Maximum	*	*	*	*	*
Minimum	*	*	*	*	*
Evaluation	*	*	*	*	*



HLP = half-life period; DP = doubling period | * You will receive the data after the analyses have been successfully carried out. Evaluation: good ■ / average ■ / poor ■

With this performance package, you can obtain the following information about your wort boiling system (current settings):

- degradation of free DMS, DMS-P and total DMS compared to other wort boiling systems
- increase in the TBI compared to other wort boiling systems
- degradation of the residual coag. N compared to other wort boiling systems
- how the measured values change through reducing/extending the duration of the boil
- max./min. threshold values at the start of the boiling process, provided that certain values during the current duration of the boil do not rise above or drop below these thresholds
- determination of the optimal duration of the boiling process

Performance Package

The package Wort Boiling Systems includes the following analyses:

- original gravity
- total DMS
- TBI
- coagulable N
- pH

For information on current pricing, please consult the List of Services and Fees on our website:

www.blq-weihenstephan.de

