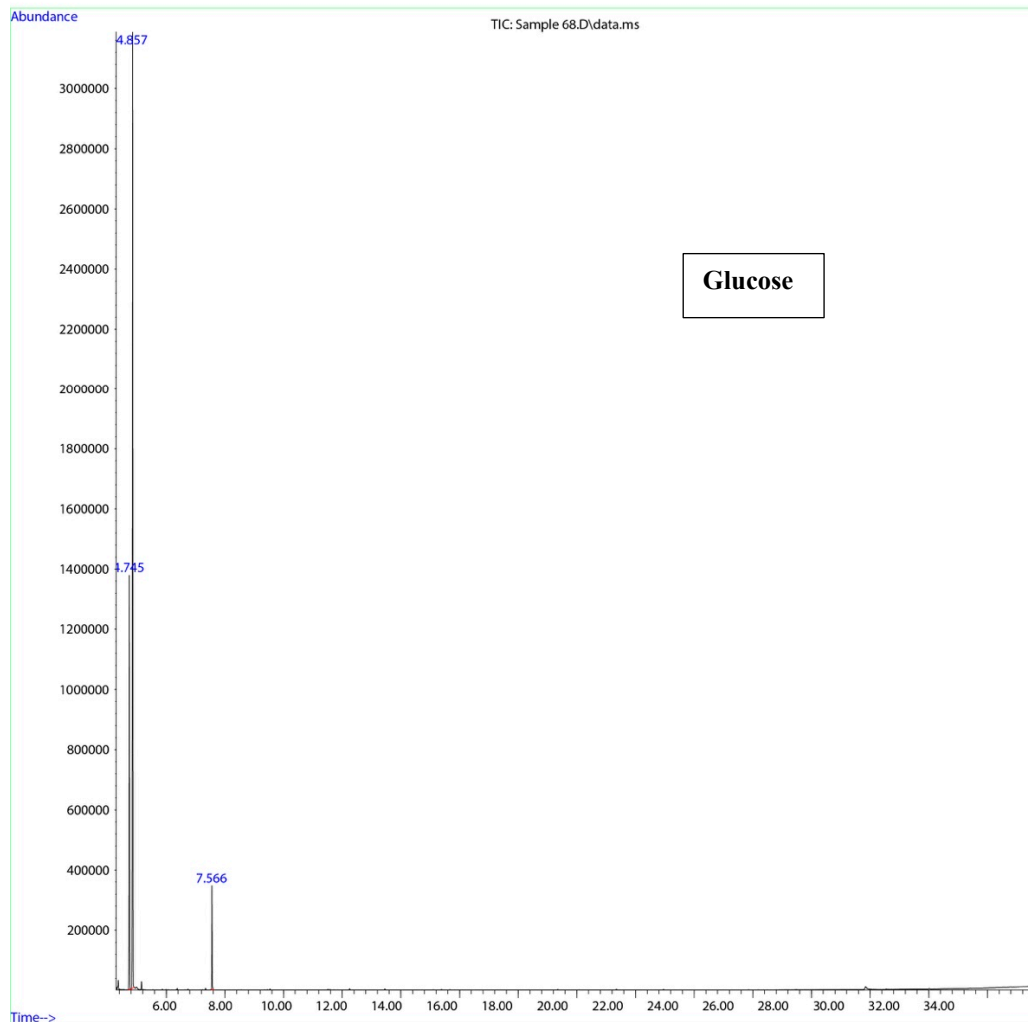


Area Percent Report

Data Path : D:\GS_DATA\
Data File : Sample 68.D
Acq On : 21 Apr 2022 16:19
Operator :
Sample : Sample 68
Misc : medium T
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: events.e
Integrator: ChemStation

Method : C:\GCMS\inch\methods\IC_Default.m
Title :



IC_Default.m Thu Apr 21 17:19:01 2022

Page: 2

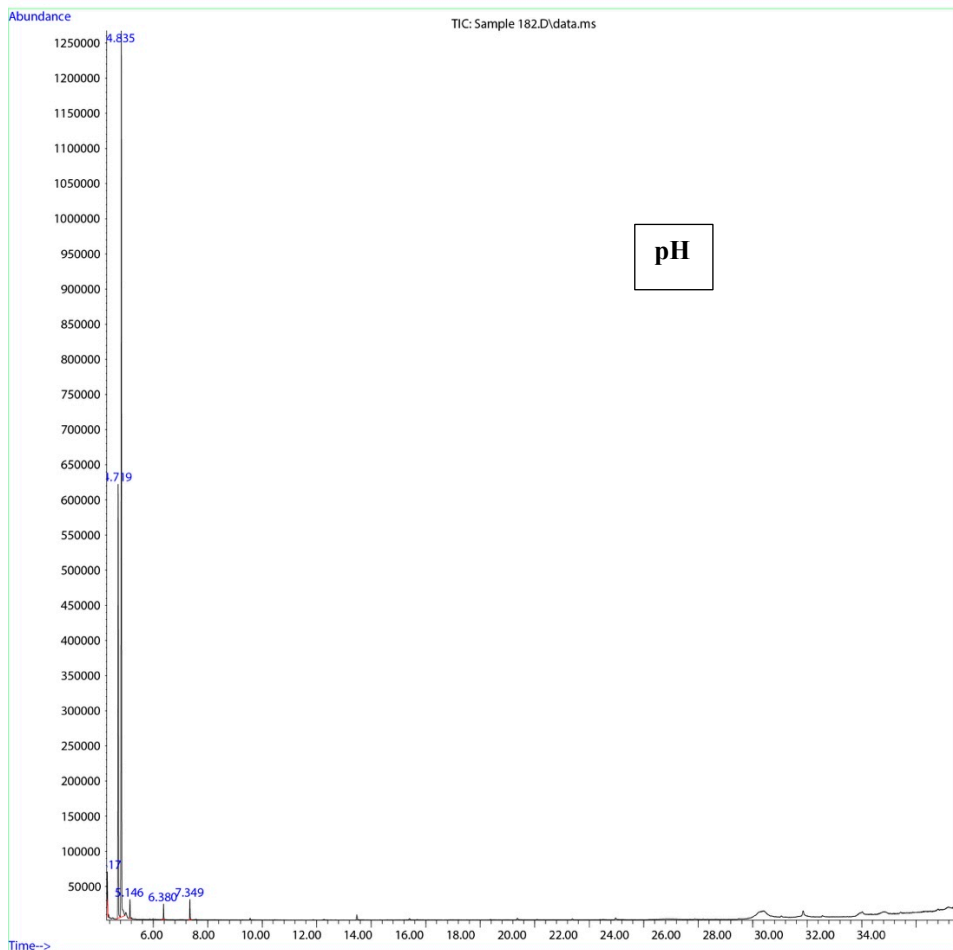
Library Search Report						
Data Path : D:\GS_DATA\ Data File : Sample 68.D						
Acq On : 21 Apr 2022 16:19						
Operator :						
Sample : Sample 68 Misc : medium T						
ALS Vial : 3 Sample Multiplier: 1						
Search Libraries: D:\MassHunter\Library\NIST17.L Minimum Quality: 0						
Unknown Spectrum: Apex						
Integration Events: ChemStation Integrator - events.e						
Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	4,745	24.84	D:\MassHunter\Library\NIST17.L Ethylbenzene	5644	000100-41-4	91
			Ethylbenzene	5646	000100-41-4	90
			Ethylbenzene	5645	000100-41-4	90
2	4,857	69.54	D:\MassHunter\Library\NIST17.L p-Xylene	5629	000106-42-3	95
			Benzene, 1,3-dimethyl-	5661	000108-38-3	95
			o-Xylene	5639	000095-47-6	95
3	7,566	5.63	D:\MassHunter\Library\NIST17.L Octanoic acid, methyl ester	33934	000111-11-5	96
			Octanoic acid, methyl ester	33918	000111-11-5	90
			Octanoic acid, methyl ester	33931	000111-11-5	83

Area Percent Report

Data Path : D:\GS_DATA\
Data File : Sample 182.D
Acq On : 21 Jun 2023 15:42
Operator :
Sample : Sample 182
Misc : pH
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: autoint1.e
Integrator: ChemStation

Method : C:\GCMS\inch\methods\IC_Default.m
Title :



IC_Default.m Wed Jun 21 16:32:25 2023

Page: 2

Library Search Report					
Data Path : D:\GS_DATA\ Data File : Sample 182.D					
Acq On : 21 Jun 2023 15:42					
Operator :					
Sample : Sample 182 Misc : pH					
ALS Vial : 5 Sample Multiplier: 1					
Search Libraries: D:\MassHunter\Library\NIST17.L Minimum Quality: 0					
Unknown Spectrum: Apex					
Integration Events: ChemStation Integrator - autoint1.e					
PK#	RT	Area%	Library/ID	Ref#	CAS# Qual
1	4,317		1.62 D:\MassHunter\Library\NIST17.L	7397	001678-91-7 91
			Cyclohexane, ethyl-	7392	001678-91-7 91
			Cyclohexane, ethyl-	7396	001678-91-7 87
2	4,719		29.01 D:\MassHunter\Library\NIST17.L	5646	000100-41-4 91
			Ethylbenzene	5643	000100-41-4 91
			Ethylbenzene	5644	000100-41-4 91
3	4,835		66.23 D:\MassHunter\Library\NIST17.L	5661	000108-38-3 95
			Benzene, 1,3-dimethyl-	5639	000095-47-6 95
			o-Xylene	5638	000095-47-6 94
4	5,146		1.14 D:\MassHunter\Library\NIST17.L	5639	000095-47-6 94
			o-Xylene	5629	000106-42-3 94
			p-Xylene		

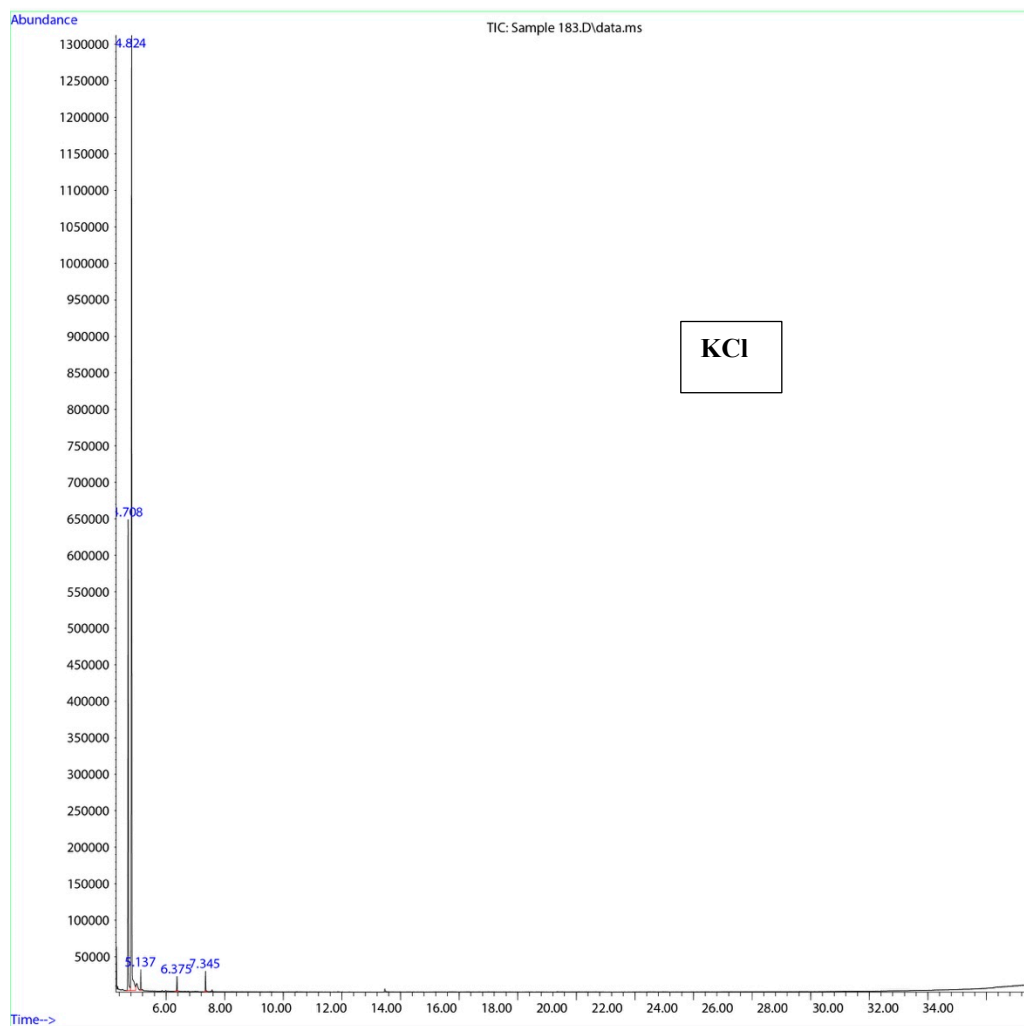
		Benzene, 1,3-dimethyl-	5661	000108-38-3	94
5	6,380	0.86 D:\MassHunter\Library\NIST17.L Decane	21357	000124-18-5	90
		Decane	21358	000124-18-5	74
		Decane	21360	000124-18-5	68
6	7,349	1.13 D:\MassHunter\Library\NIST17.L Undecane	31794	001120-21-4	95
		Undecane	31793	001120-21-4	90
		Undecane	31792	001120-21-4	83

Area Percent Report

Data Path : D:\GS_DATA\
Data File : Sample 183.D
Acq On : 21 Jun 2023 16:22
Operator :
Sample : Sample 183
Misc : KCl
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: autoint1.e
Integrator: ChemStation

Method : C:\GCMS\inch\methods\IC_Default.m
Title :



IC_Default.m Wed Jun 21 17:37:56 2023

Page: 2

Library Search Report					
Data Path : D:\GS_DATA\ Data File : Sample 183.D					
Acq On : 21 Jun 2023 16:22					
Operator :					
Sample : Sample 183 Misc : KCl					
ALS Vial : 6 Sample Multiplier: 1					
Search Libraries: D:\MassHunter\Library\NIST17.L Minimum Quality: 0					
Unknown Spectrum: Apex					
Integration Events: ChemStation Integrator - autoint1.e					
PK#	RT	Area%	Library/ID	Ref#	CAS# Qual
1	4,708		29.54 D:\MassHunter\Library\NIST17.L Ethylbenzene	5646	000100-41-4 91
			Ethylbenzene	5643	000100-41-4 91

		Ethylbenzene	5644	000100-41-4	91
2	4,824	67.58 D:\MassHunter\Library\NIST17.L o-Xylene	5639	000095-47-6	95
		Benzene, 1,3-dimethyl-	5661	000108-38-3	95
		Benzene, 1,3-dimethyl-	5660	000108-38-3	94
3	5,137	1.19 D:\MassHunter\Library\NIST17.L o-Xylene	5639	000095-47-6	94
		o-Xylene	5630	000095-47-6	94
		p-Xylene	5629	000106-42-3	94
4	6,375	0.76 D:\MassHunter\Library\NIST17.L Decane	21357	000124-18-5	80
		Decane	21358	000124-18-5	80
		Decane, 1,1'-oxybis-	174935	002456-28-2	78
5	7,345	0.94 D:\MassHunter\Library\NIST17.L Undecane	31793	001120-21-4	76
		Undecane	31794	001120-21-4	76
		Tetradecane, 1-chloro-	104020	002425-54-9	74

Figure S1. Typical total ion chromatogram of the GC-MS analysis. **Glucose** – TIC of the media after 1 h incubation with 100 mM glucose in water. **pH** – TIC of the media after 1 h incubation with 100 mM glucose in 50 mM HEPES buffer pH 7.0. **KCl** – TIC of the media after 1 h incubation with 100 mM glucose + 150 mM KCl. OA has retention time 7.56.

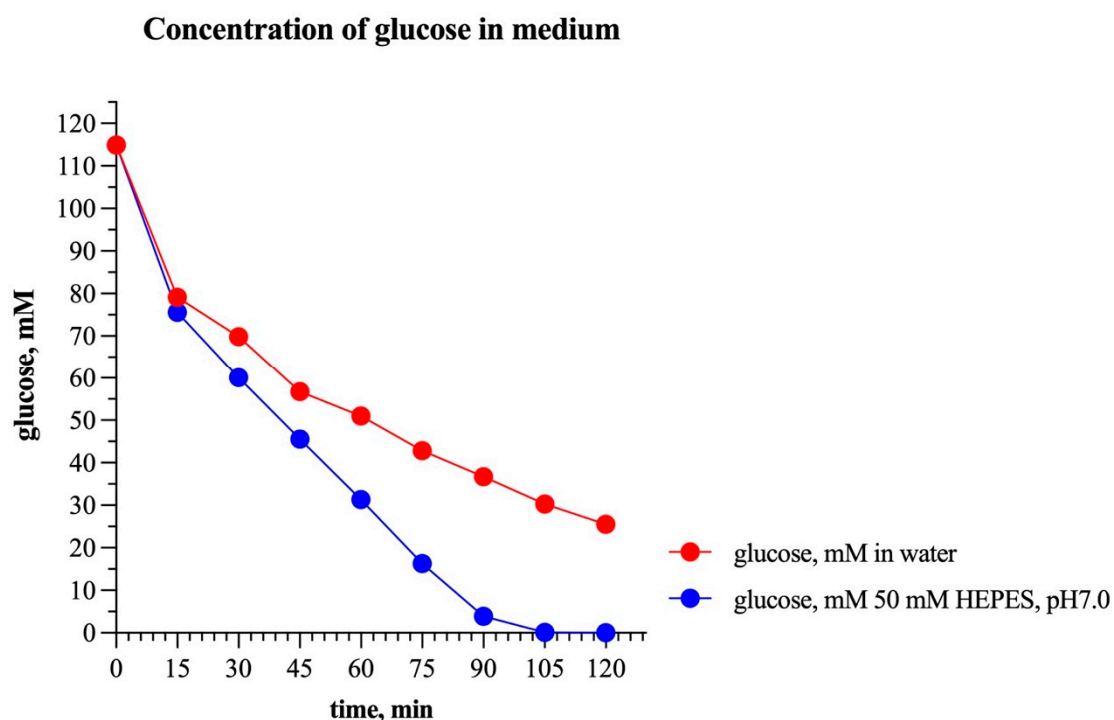


Figure S2. Dynamics of changes in glucose concentration in the incubation medium. BY4741 cells were incubated at 30°C with either 100 mM aqueous glucose solution or 100 mM glucose in 50 mM HEPES buffer pH 7.0. Glucose consumption in buffer was faster than in aqueous solution, which can be explained by the lack of proton control over ATPase.

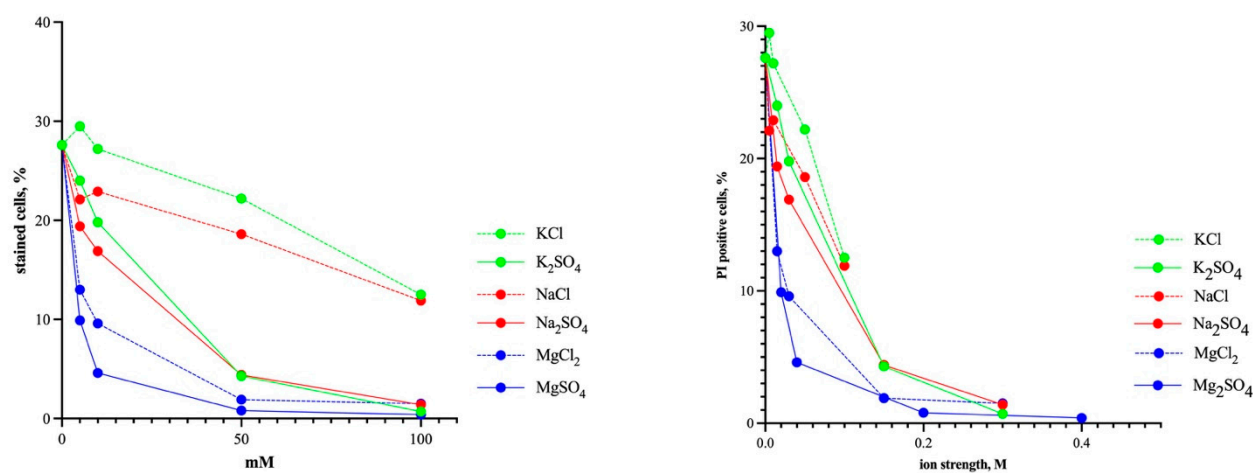


Figure S3. The effect of different concentrations of monovalent and divalent salts on the level of CICD. BY4741 cells were incubated for 1 hour at 30°C with 100 mM glucose in the presence of the indicated salt concentrations. Left panel - salts are given in equimolar concentrations in mM. Right panel - the same concentrations are displayed as the ionic strength of the solution in M.