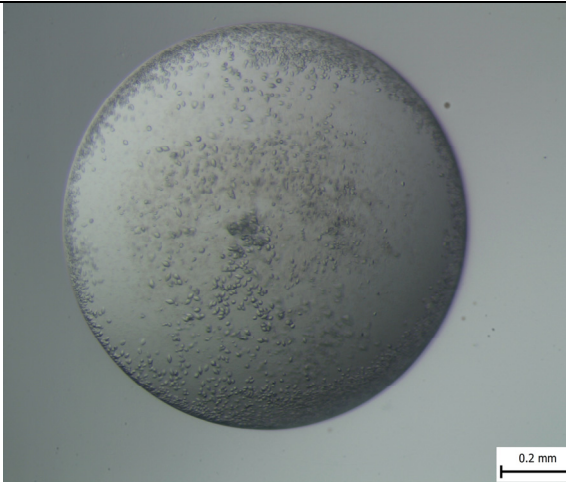
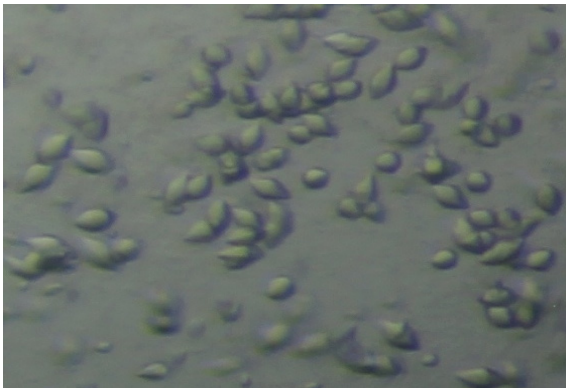
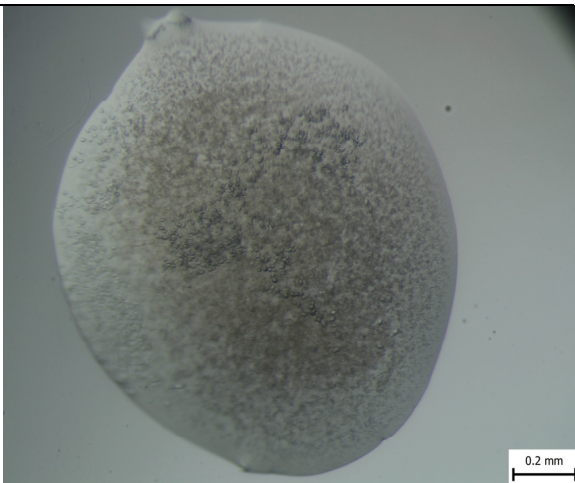
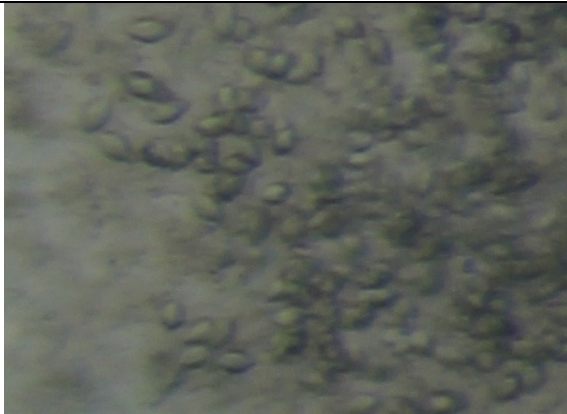
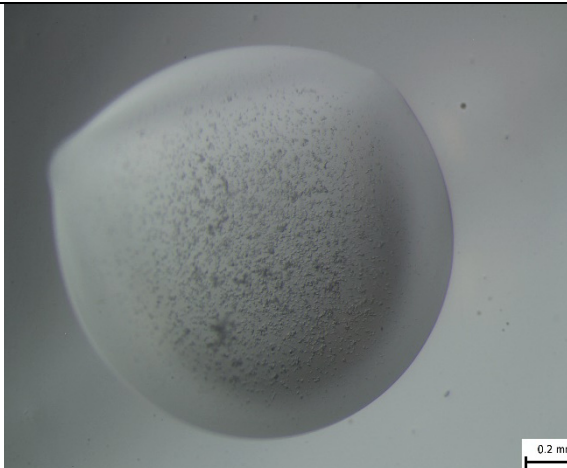
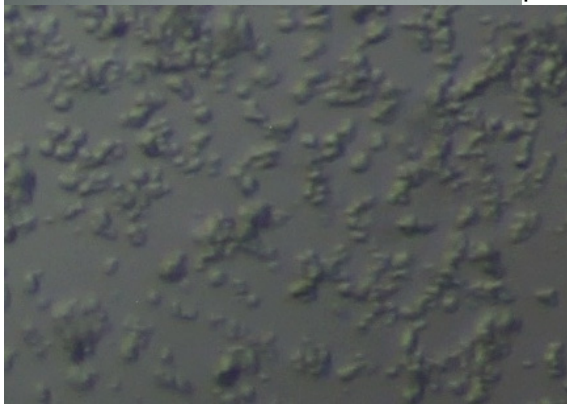

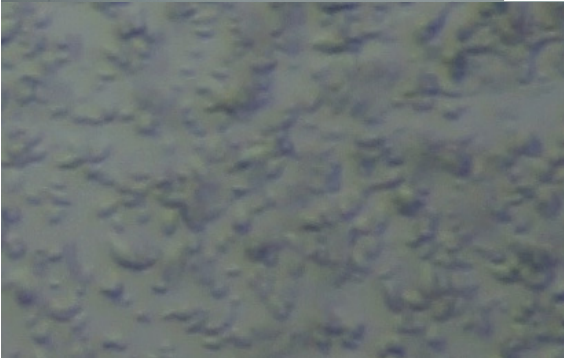
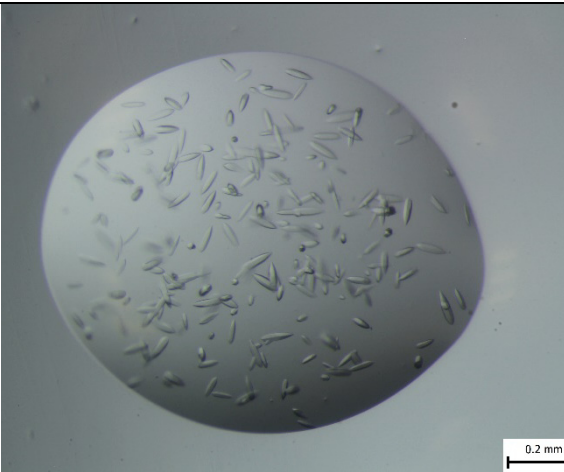


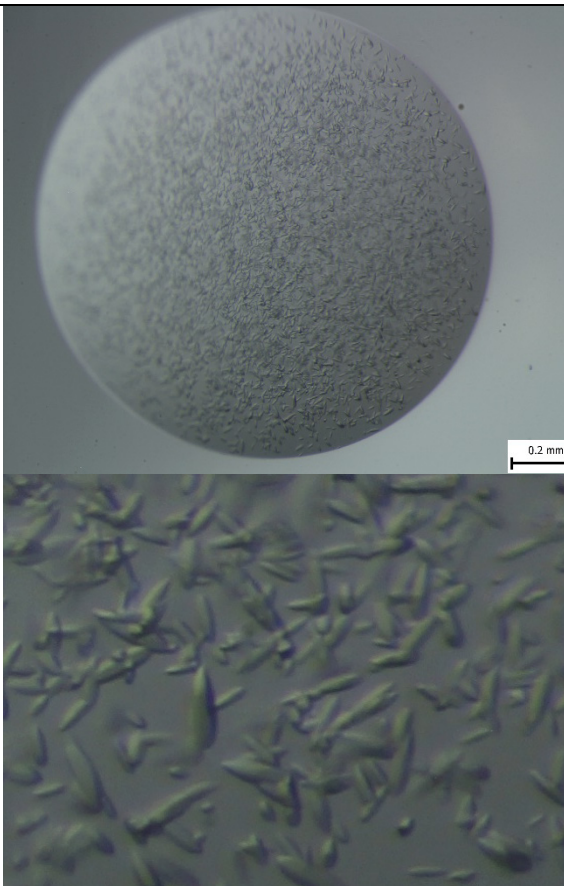
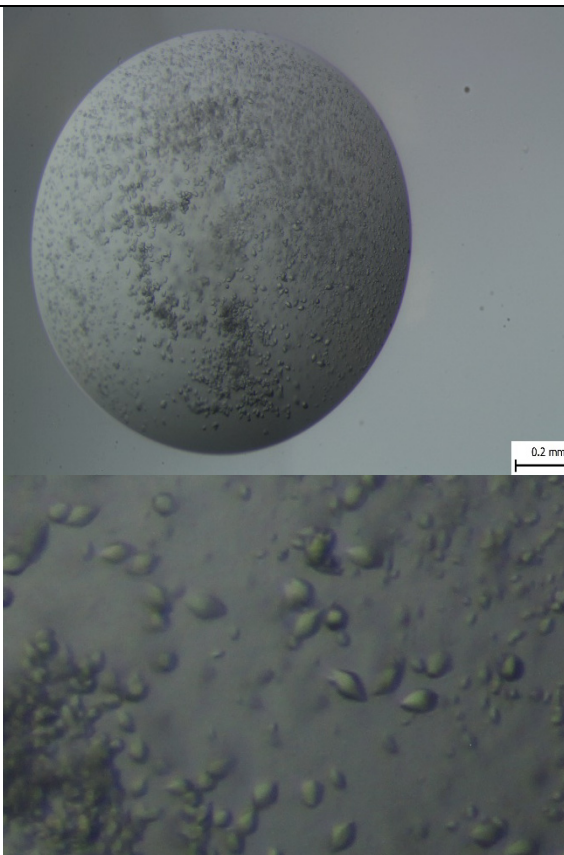
## Příloha 1 – Prvotní krystalizace DmmA

### Nanokrystaly a mikrokrystaly

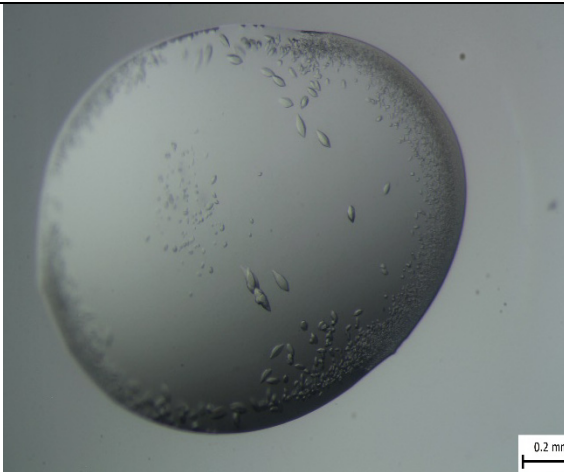
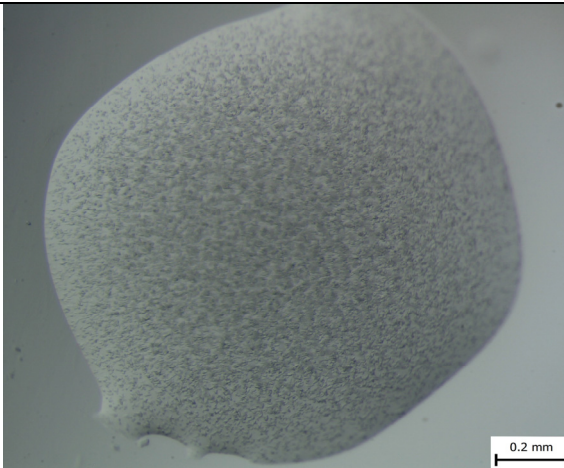
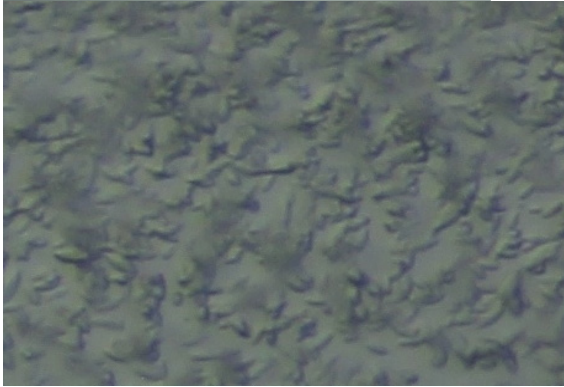
Krystalizační screen	Složení	Protein : precipitant	Fotografie krystalů
Wizard (H2)	2,5 M chlorid sodný  100 mM octan sodný, pH 7  200 mM síran lithný	1:1	 0.2 mm
			
Wizard (H2)	2,5 M chlorid sodný  100 mM octan sodný, pH 7  200 mM síran lithný	2:1	 0.2 mm

			
Anions (B3)	<p>0,1 M HEPES, pH 7,5</p> <p>1,2 M citronan trisodný</p>	2:1	 

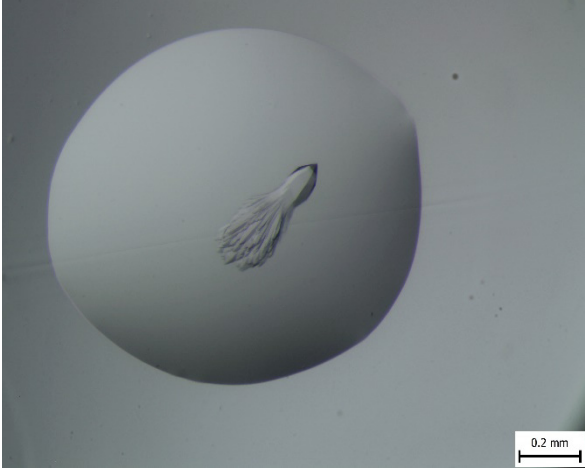
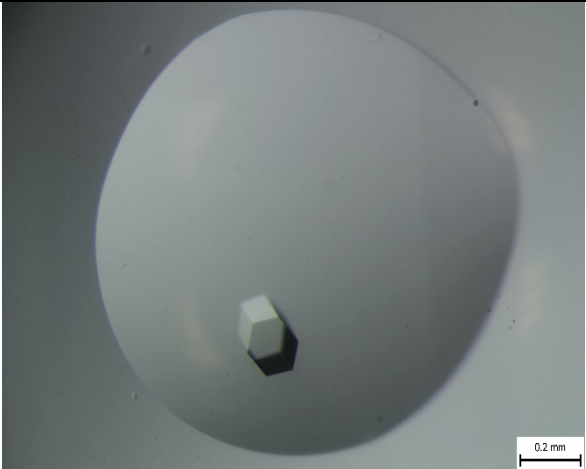
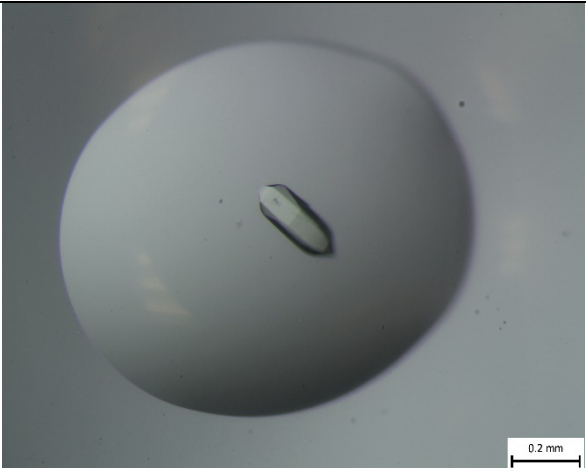
Anions (C1)	0,1 M octan sodný, pH 4,6  3,5 M formiát sodný	1:1	 
Anions (C7)	0,1 M MES, pH 6,5  3,5 M formiát sodný	1:1	

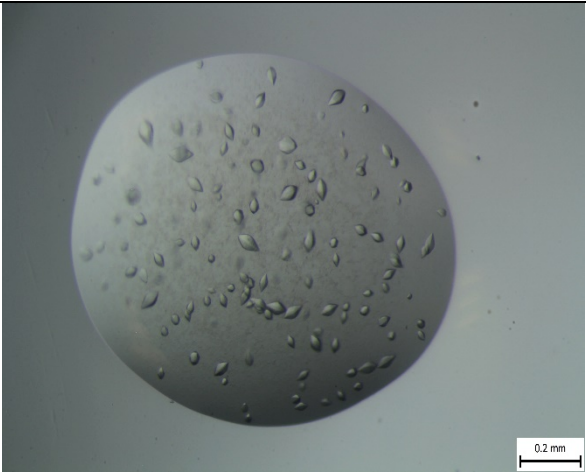
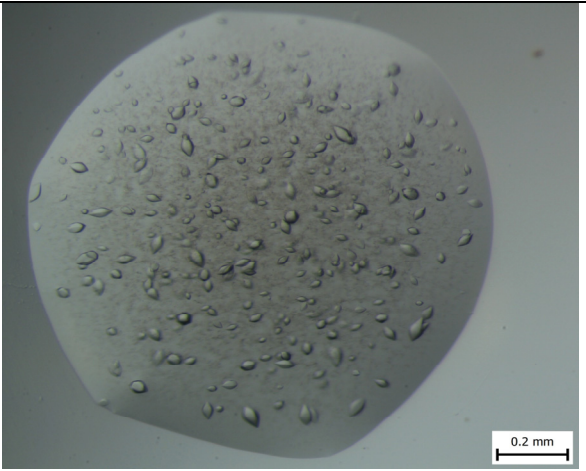
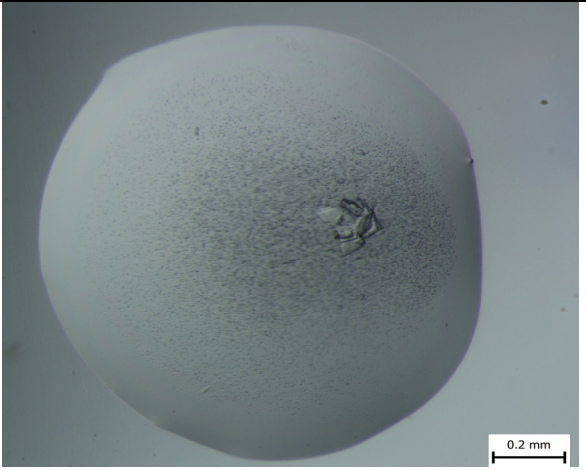
<p>Anions (C7)</p>	<p>0,1 M MES pH 6,5</p> <p>3.5 formiát sodný</p>	<p>2:1</p>	
<p>Cations (G3)</p>	<p>0,1 M octan sodný, pH 4.6</p> <p>3,2 M chlorid sodný</p>	<p>1:1</p>	

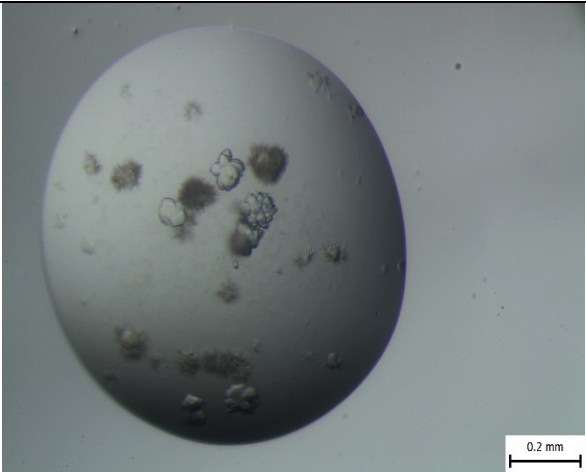
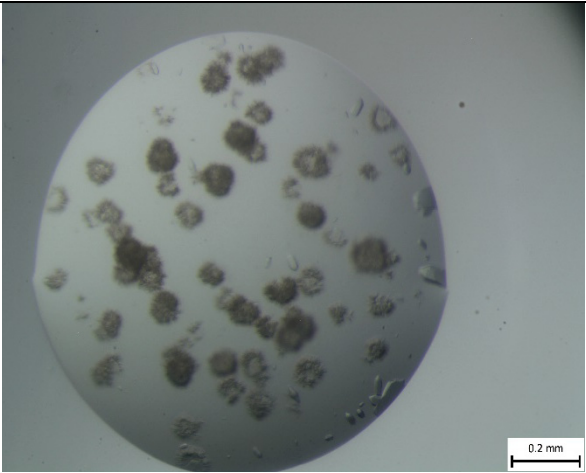
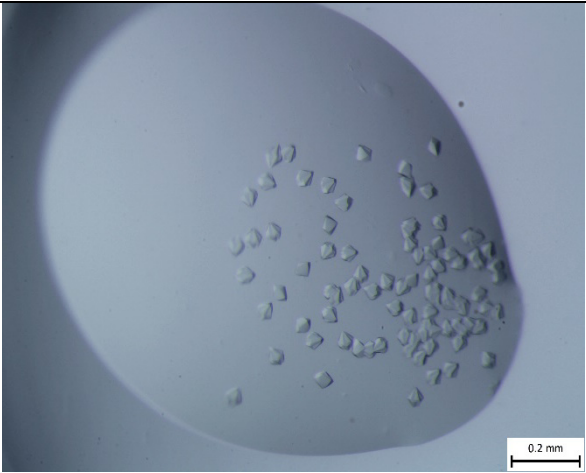


SG1 (G5)	60% v/v <i>T-made</i> pH 7	1:1	
SG1 (G5)	60% v/v <i>T-made</i> pH 7	2:1	 

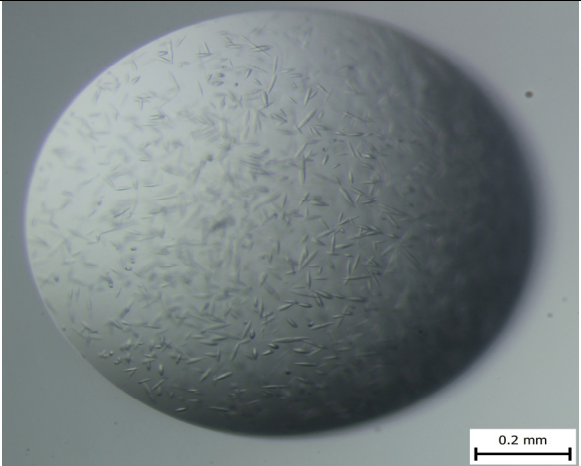
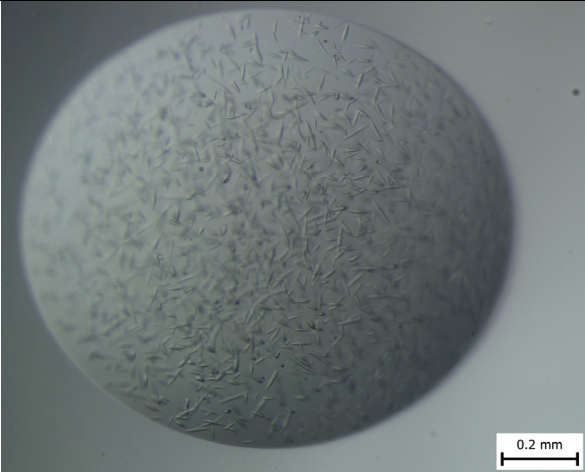
## Makrokrystaly

Krytalizační screen	Složení	Protein: Precipitant	Fotografie krystalů
Anions (A1)	0,1 M octan sodný, pH 4,6  2,5 M octan sodný	1:1	
Anions (C6)	0,1 M octan sodný, pH 4,6  1.2 M malonát sodný	2:1	
Anions (C6)	0,1 M octan sodný, pH 4,6  1.2 M malonát sodný	1:1	

Cations (G3)	<p>0,1 M octan sodný, pH 4,6</p> <p>2.2 M chlorid draselný</p>	1:1	
Cations (G3)	<p>0,1 M octan sodný, pH 4,6</p> <p>2.2 M chlorid draselný</p>	2:1	
PACT (C10)	<p>0,2 M chlorid hořečnatý</p> <p>0,1 M HEPES, pH 7</p> <p>20% w/v PACT 6000</p>	2:1	

AmSO <sub>4</sub> (G1)	0,1 M citronan sodný  0,5 M síran amonný  1 M síran lithný	1:1	
AmSO <sub>4</sub> (G1)	0,1 M citronan sodný  0,5 M síran amonný  1 M síran lithný	2:1	
SG1 (H12)	4,3 M chlorid sodný  0,1 M <i>sodium</i> <i>HEPES</i> , pH 7,5	2:1	



Classics (H10)	10% w/v PEG 6000  2 M chlorid sodný	1:1	
Classics (H10)	10% w/v PEG 6000  2 M chlorid sodný	2:1	

## Příloha 2 – Kokrystalizace DmmA-H315F s laktony

### Undekano-gamma lakton

Enzym DmmA-H315F s undekano-gamma laktonem krystalizoval v celkem 68 podmínkách:

Screen	Krystalizační podmínky
JSCG+	A1, B3, C5, D4, E4, E9, F10, F11, F12, G11, H2, H7
PACT premier	C10, D10, F2, F5, F10
SG1	A1, A12, B8, B12, C6, C8, C9, C10, E5, E6, E7, F3, F4, G6, G8, G11, H12
Wizard	A8, B2, B8, C3, C9, C12, D11, E3, E9, F3, F4, F6, F7, F12, G5, G7, H2, H9, H12
Anions	A7, B7, C6, C12, D12, E3, E5, E9, E11, F3, F5, F9, F11, G9, H3, H9

### Beta-butyrolakton

Enzym DmmA-H315F s beta-butyrolaktonem krystalizoval v celkem 43 podmínkách:

Screen	Krystalizační podmínky
JSCG+	A3 C5, E1, E4, E9, G11, H2, H7
PACT premier	C10, D10, F3, F5, F6
SG1	C9, C10, E5, E6, E11, G6, G8
Wizard	B2, B8, C12, D11, F4, F7 F12, G5, G7, H1, H2
Anions	C6, C12, D6, D7, D12, E11, F11, G3, G9, H9

### Whiskey lakton

Enzym DmmA-H315F s whiskey laktonem krystalizoval v celkem 69 podmínkách:

Screen	Krystalizační podmínky
JSCG+	A1, B3, C5, D4, E4, E9, F10, F11, F12, G11, H2, H7
PACT premier	B9, C10, D10, F3, F5, F6, F10, G7
SG1	A12, B8, B12, C8, C9, C10, D9, E5, E7, E11 F3, F9
Wizard	A8, B1, B2, B8, C3, D11, E3, E9, F3, F4, F7, G5, G9, G11, H1, H2, H9, H12
Anions	A4, A7, B1, B7 C3, C6, C12, D6, D12, E3, F4, F5 F9, F10, F11, G1, G9

Přesné chemické složení jednotlivých podmínek je možné dohledat na internetových stránkách výrobců screenů:

Screen	URL
JSCG+	<a href="https://moleculardimensions.com/products/JCSG-plus">https://moleculardimensions.com/products/JCSG-plus</a>
PACT premier	<a href="https://moleculardimensions.com/products/PACT-PremierV2">https://moleculardimensions.com/products/PACT-PremierV2</a>
SG1	<a href="https://www.moleculardimensions.com/products/SG1-Screen">https://www.moleculardimensions.com/products/SG1-Screen</a>
Wizard	<a href="https://moleculardimensions.com/products/Wizard-Classic">https://moleculardimensions.com/products/Wizard-Classic</a>
Anions	<a href="http://bic.ceitec.cz/files/292/268.pdf">http://bic.ceitec.cz/files/292/268.pdf</a>