

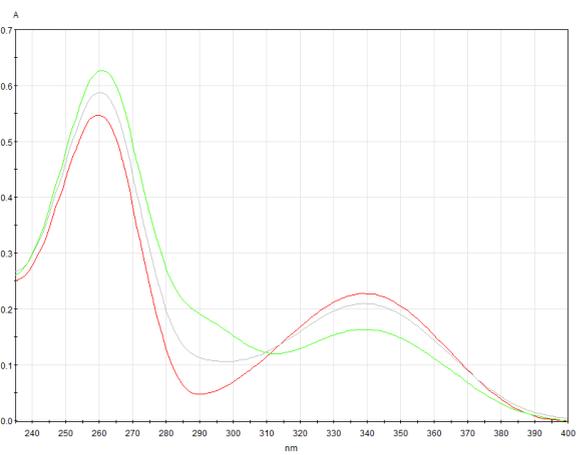
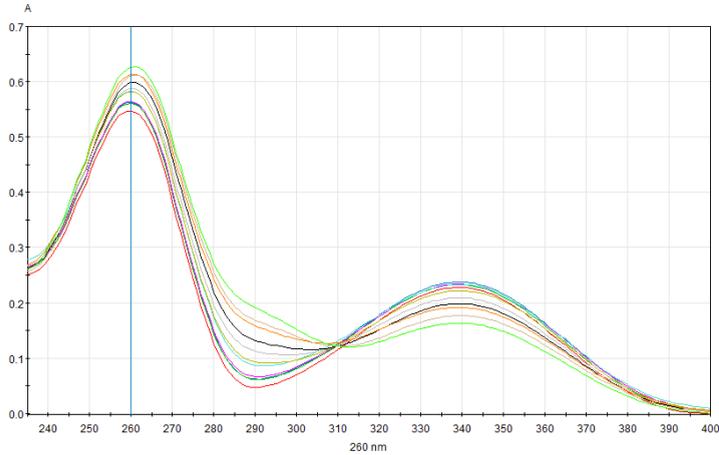
### 3.0 long-term stabilnost

50 dana inkubacije NAD<sup>+</sup> i NADH pri sobnoj temperaturi:

- Puferi: GlyPP i PBS
- DES - ChCl:U (1:2)
  - Maseni udio vode: 10, 20, 30, 50, 60, 80%
- 0. dan : 2.2.2021.
- 50. dan: 24.3.2021.

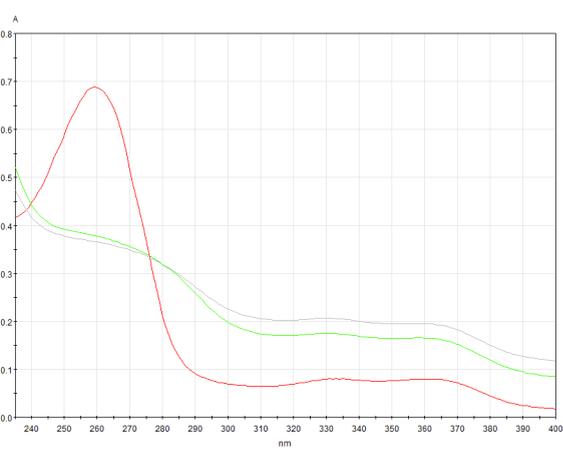
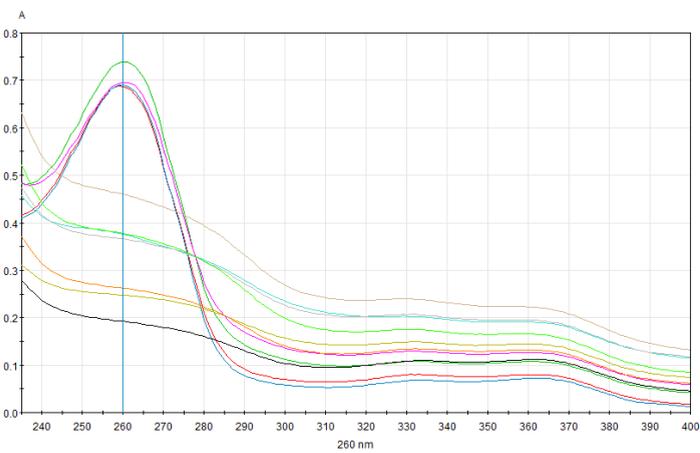
#### Referentne točke - koenzimi u puferima

- NADH u GlyPP (pH= 9)
- NAD<sup>+</sup> u PBS (pH= 7,5)



- 0.547 A GlyPP 0dan.dsp
- 0.563 A GlyPP 1dan.dsp
- 0.560 A GlyPP 2dan.dsp
- 0.564 A GlyPP 3dan.dsp
- 0.582 A GlyPP 7dan.dsp
- 0.582 A GlyPP 14dan.dsp
- 0.588 A GlyPP 21dan.dsp
- 0.598 A GlyPP 28dana.dsp
- 0.613 A GlyPP 35dana.dsp
- 0.611 A GlyPP 42dana.dsp
- 0.626 A GlyPP 50dana.dsp

- GlyPP 0dan.dsp
- GlyPP 21dan.dsp
- GlyPP 50dana.dsp



- 0.687 A PBS 0dan+12.dsp
- 0.690 A PBS 1dan.dsp
- 0.739 A PBS 2dan.dsp
- 0.695 A PBS 3dan.dsp
- 0.375 A PBS 7dan.dsp
- 0.248 A PBS 14dan.dsp
- 0.366 A PBS 21dan.dsp
- 0.192 A PBS 28dana.dsp
- 0.262 A PBS 35dana.dsp
- 0.460 A PBS 42dana.dsp
- 0.378 A PBS 50dana.dsp

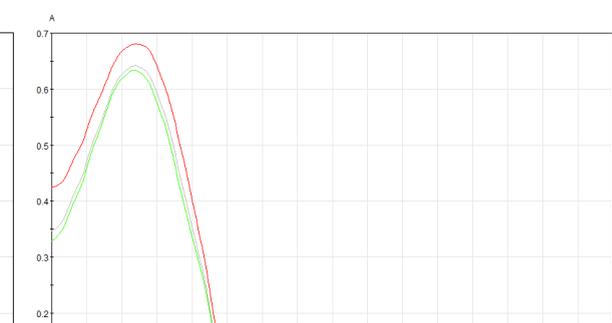
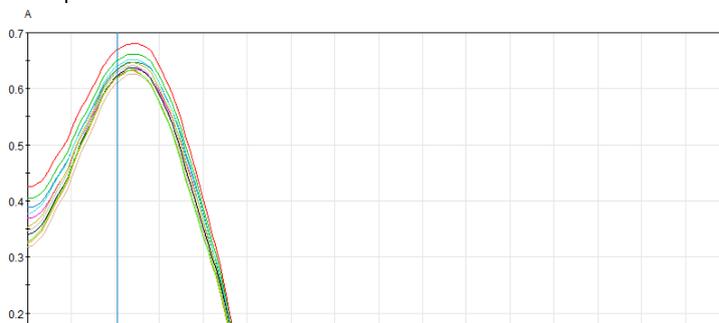
- PBS 0dan+12.dsp
- PBS 21dan.dsp
- PBS 50dana.dsp

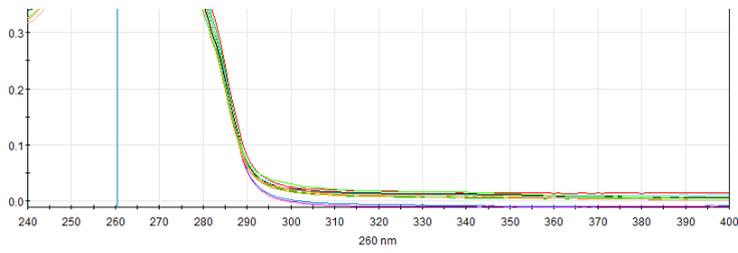
#### 1. NAD<sup>+</sup>

ChCl:U (1:2) - 10, 20, 30, 50, 60, 80% H<sub>2</sub>O

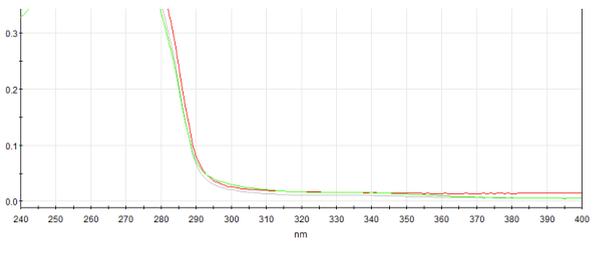
+ komparativno svi % vode i PBS - 0. dan

+ komparativno svi % vode i PBS - 50. dan

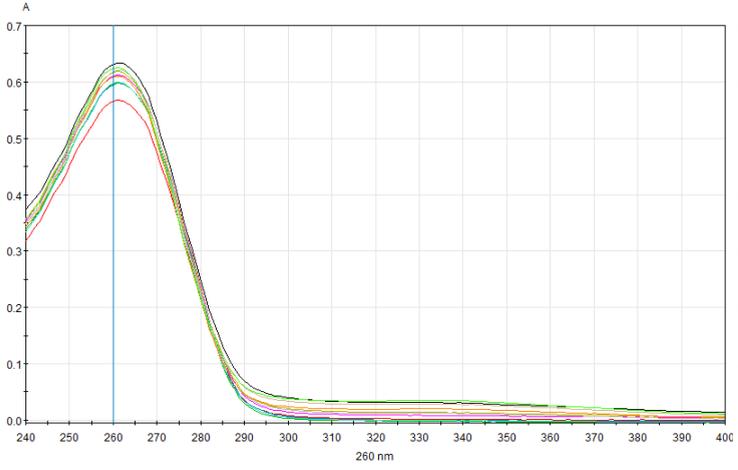




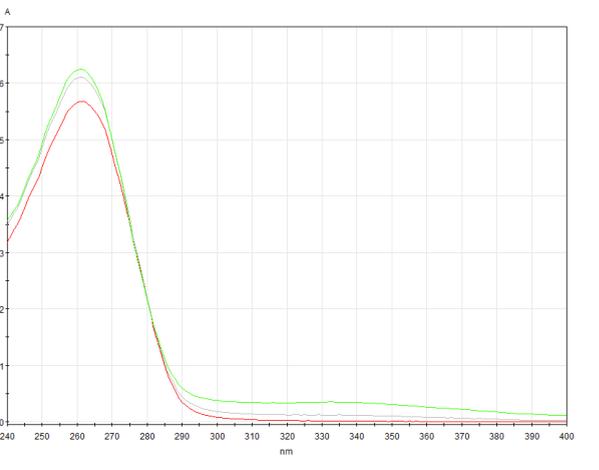
- 0.668 A NAD+ 10% 0dan NOVO dsp
- 0.633 A NAD+ 10% 1dan dsp
- 0.648 A NAD+ 10% 2dan dsp
- 0.620 A NAD+ 10% 3dan dsp
- 0.639 A NAD+ 10% 7dan dsp
- 0.631 A NAD+ 10% 14dan dsp
- 0.627 A NAD+ 10% 21dan dsp
- 0.622 A NAD+ 10% 28dan dsp
- 0.617 A NAD+ 10% 35dan dsp
- 0.608 A NAD+ 10% 42dan dsp
- 0.619 A NAD+ 10% 50dan dsp



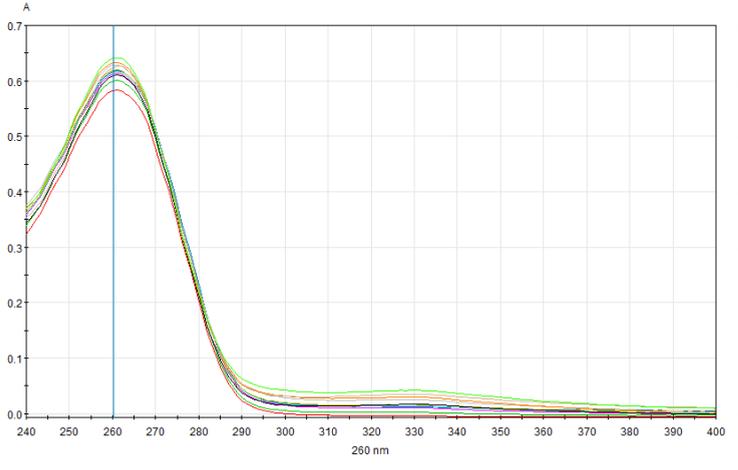
- NAD+ 10% 0dan NOVO dsp
- NAD+ 10% 21dan dsp
- NAD+ 10% 50dan dsp



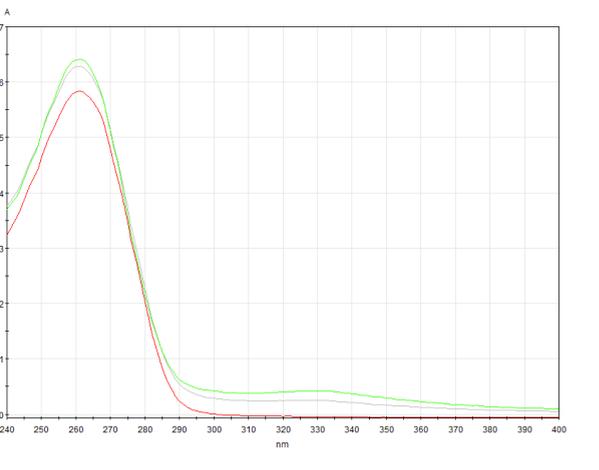
- 0.566 A NAD+ 20% 0dan 12 dsp
- 0.596 A NAD+ 20% 1dan dsp
- 0.597 A NAD+ 20% 2dan dsp
- 0.611 A NAD+ 20% 3dan dsp
- 0.598 A NAD+ 20% 7dan dsp
- 0.617 A NAD+ 20% 14dan dsp
- 0.609 A NAD+ 20% 21dan dsp
- 0.632 A NAD+ 20% 28dan dsp
- 0.609 A NAD+ 20% 35dan dsp
- 0.618 A NAD+ 20% 42dan dsp
- 0.624 A NAD+ 20% 50dan dsp



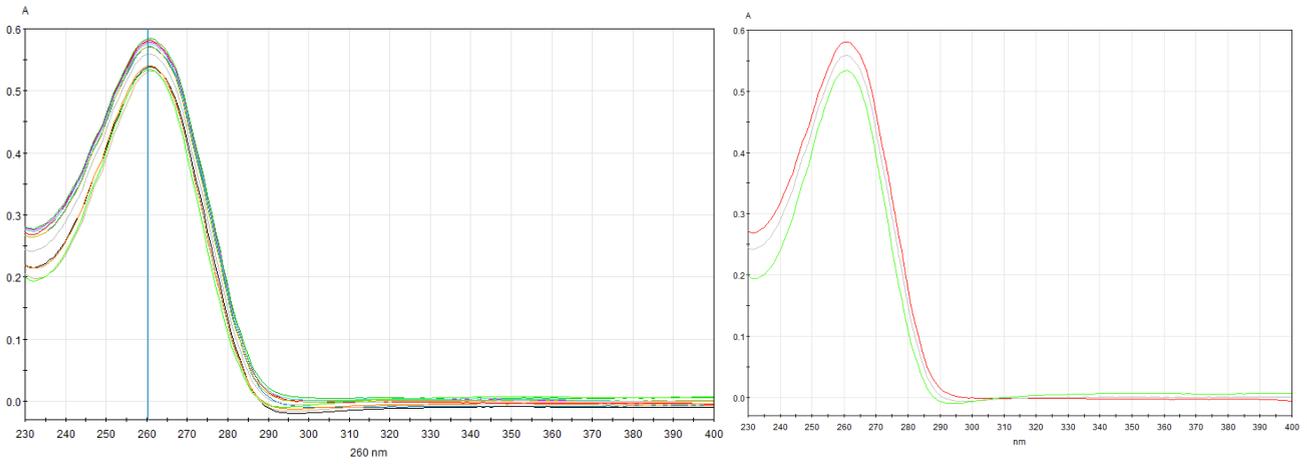
- NAD+ 20% 0dan 12 dsp
- NAD+ 20% 21dan dsp
- NAD+ 20% 50dan dsp



- 0.582 A NAD+ 30% 0dan 12 dsp
- 0.617 A NAD+ 30% 1dan dsp
- 0.599 A NAD+ 30% 2dan dsp
- 0.612 A NAD+ 30% 3dan dsp
- 0.615 A NAD+ 30% 7dan dsp
- 0.619 A NAD+ 30% 14dan dsp
- 0.628 A NAD+ 30% 21dan dsp
- 0.609 A NAD+ 30% 28dan dsp
- 0.632 A NAD+ 30% 35dan dsp
- 0.624 A NAD+ 30% 42dan dsp
- 0.640 A NAD+ 30% 50dan dsp

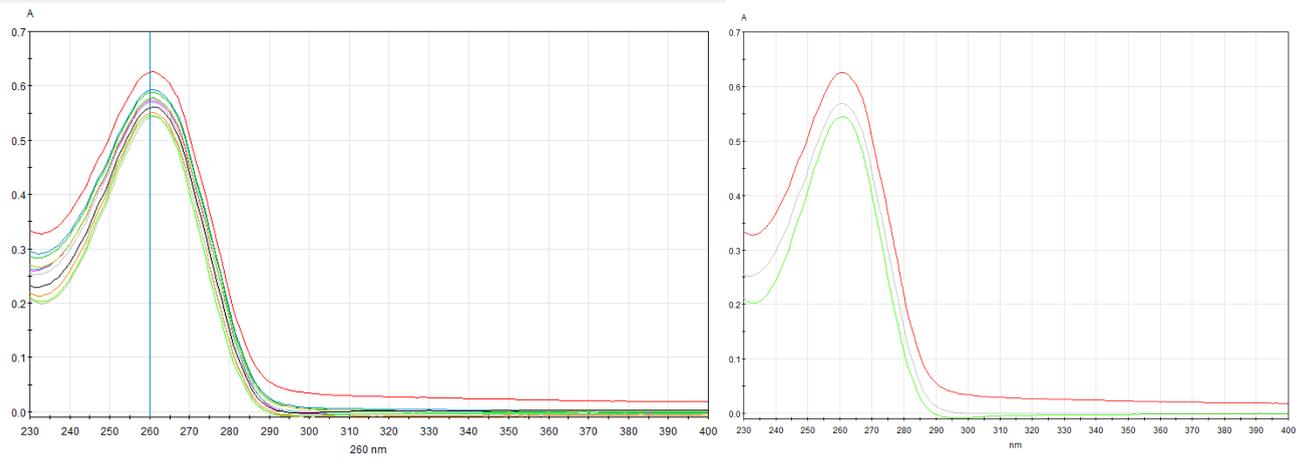


- NAD+ 30% 0dan 12 dsp
- NAD+ 30% 21dan dsp
- NAD+ 30% 50dan dsp



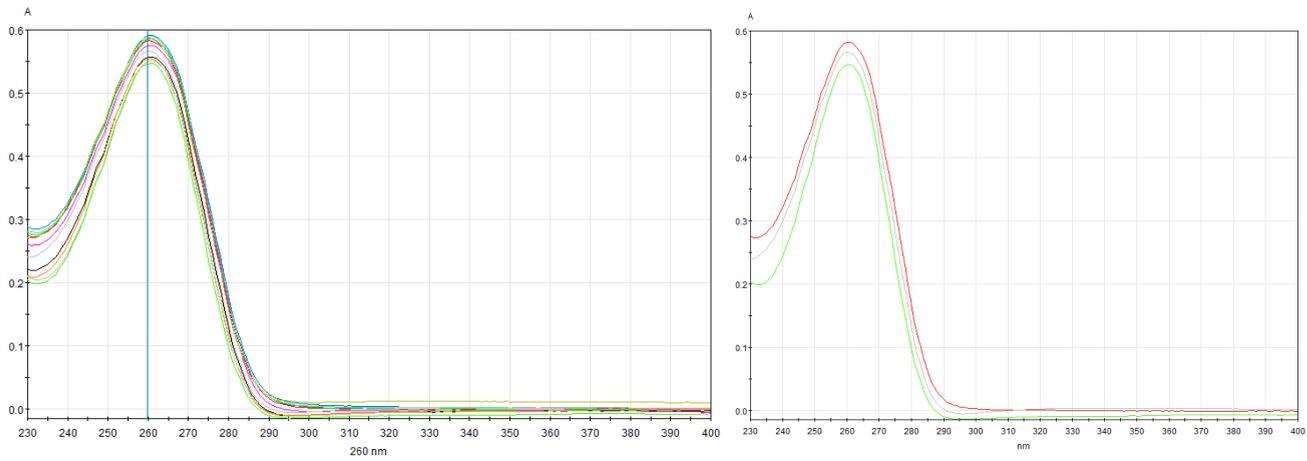
- 0.581 A NAD+ 50% 0dan 12.dsp
- 0.571 A NAD+ 50% 1dan.dsp
- 0.584 A NAD+ 50% 2dan.dsp
- 0.579 A NAD+ 50% 3dan.dsp
- 0.575 A NAD+ 50% 7dan.dsp
- 0.571 A NAD+ 50% 14dan.dsp
- 0.558 A NAD+ 50% 21dan.dsp
- 0.537 A NAD+ 50% 28dan.dsp
- 0.540 A NAD+ 50% 35dan.dsp
- 0.530 A NAD+ 50% 42dan.dsp
- 0.533 A NAD+ 50% 50dan.dsp

- NAD+ 50% 0dan 12.dsp
- NAD+ 50% 21dan.dsp
- NAD+ 50% 50dan.dsp



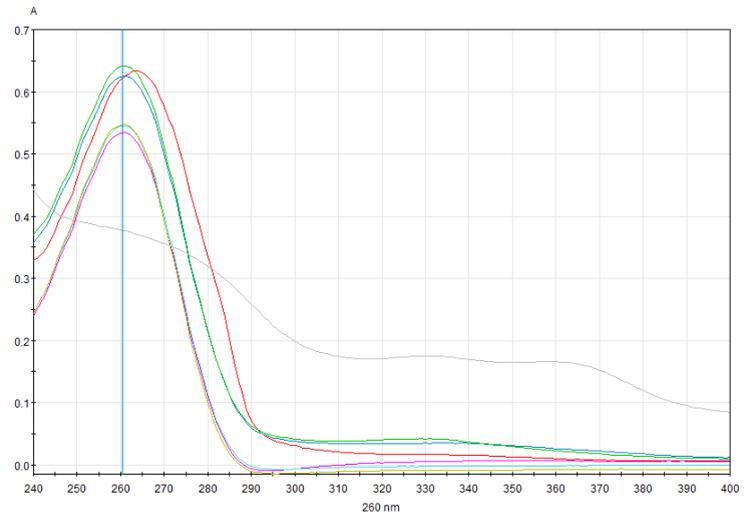
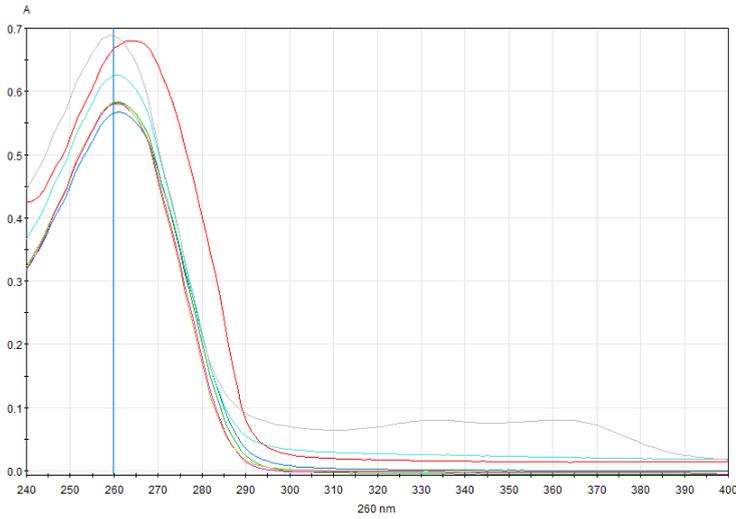
- 0.625 A NAD+ 60% 0dan 12.dsp
- 0.592 A NAD+ 60% 1dan.dsp
- 0.588 A NAD+ 60% 2dan.dsp
- 0.572 A NAD+ 60% 3dan.dsp
- 0.576 A NAD+ 60% 7dan.dsp
- 0.577 A NAD+ 60% 14dan.dsp
- 0.569 A NAD+ 60% 21dan.dsp
- 0.560 A NAD+ 60% 28dan.dsp
- 0.550 A NAD+ 60% 35dan.dsp
- 0.541 A NAD+ 60% 42dan.dsp
- 0.544 A NAD+ 60% 50dan.dsp

- NAD+ 60% 0dan 12.dsp
- NAD+ 60% 21dan.dsp
- NAD+ 60% 50dan.dsp



- 0.583 A NAD+ 80% 0dan 12.dsp
- 0.591 A NAD+ 80% 1dan.dsp
- 0.586 A NAD+ 80% 2dan.dsp
- 0.576 A NAD+ 80% 3dan.dsp
- 0.590 A NAD+ 80% 7dan.dsp
- 0.587 A NAD+ 80% 14dan.dsp
- 0.566 A NAD+ 80% 21dan.dsp
- 0.557 A NAD+ 80% 28dan.dsp
- 0.555 A NAD+ 80% 35dan.dsp
- 0.550 A NAD+ 80% 42dan.dsp
- 0.547 A NAD+ 80% 50dan.dsp

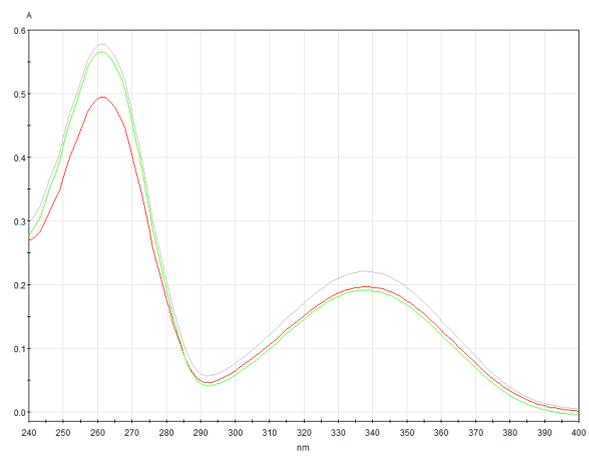
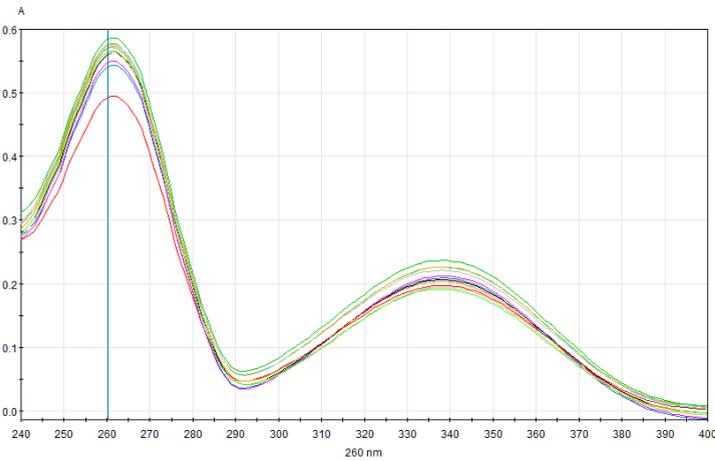
- NAD+ 80% 0dan 12.dsp
- NAD+ 80% 21dan.dsp
- NAD+ 80% 50dan.dsp

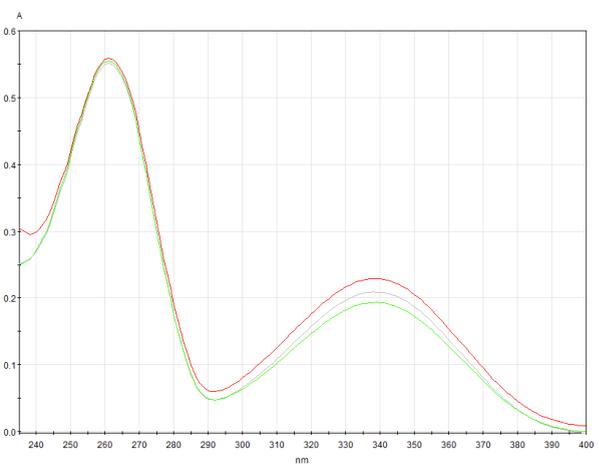
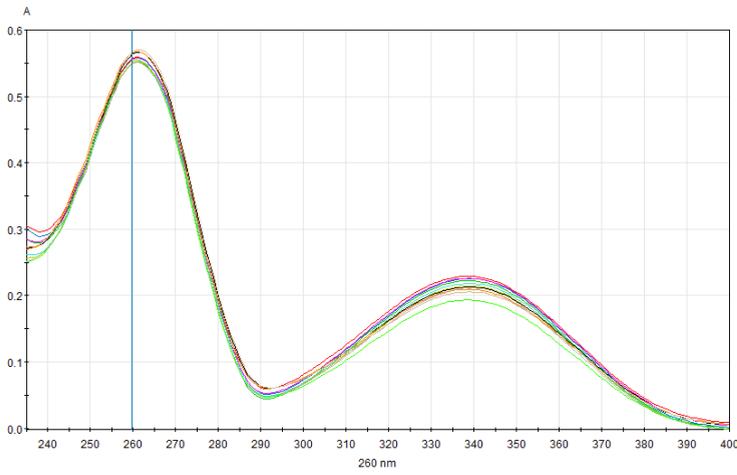


Komparativno - 0 dan  
Svi DES + RO

## 2. NADH

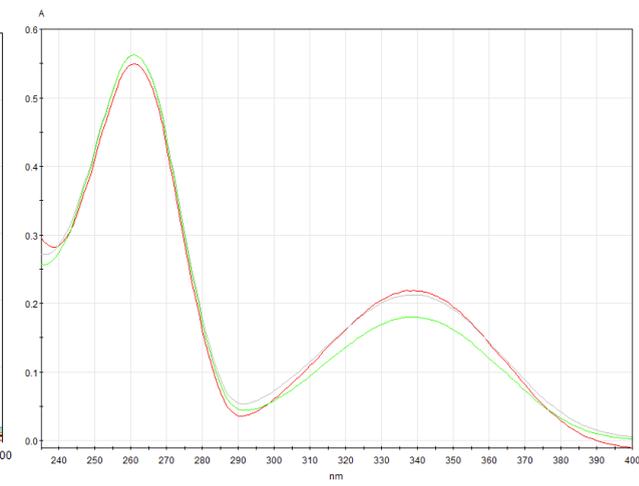
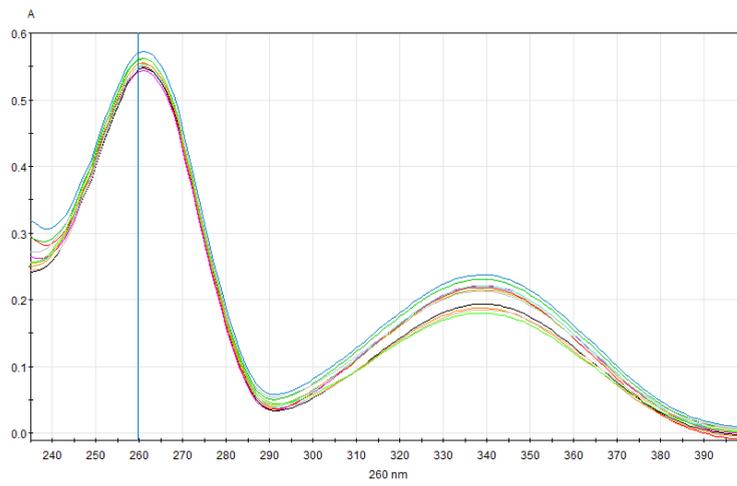
ChCl:U (1:2) - 10, 20, 30, 50, 60, 80% H<sub>2</sub>O  
+ komparativno svi % vode i GlyPP - 0. dan  
+ komparativno svi % vode i GlyPP - 50. dan





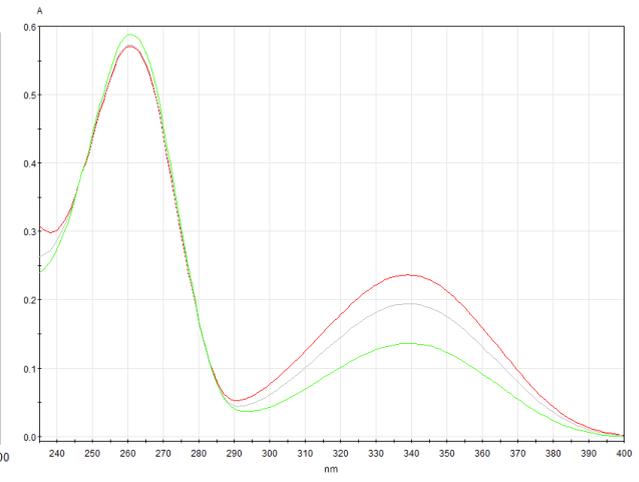
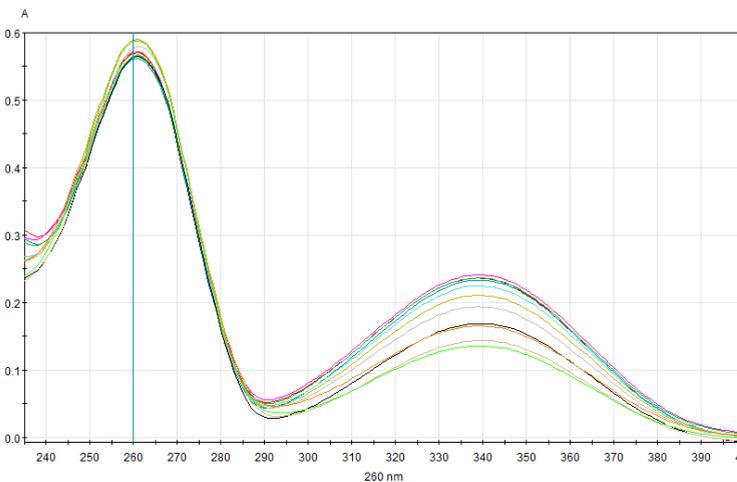
- |                              |                              |
|------------------------------|------------------------------|
| 0.557 A NADH 20% 0dan 12.dsp | 0.229 A NADH 20% 0dan 12.dsp |
| 0.556 A NADH 20% 1dan.dsp    | 0.225 A NADH 20% 1dan.dsp    |
| 0.550 A NADH 20% 2dan.dsp    | 0.222 A NADH 20% 2dan.dsp    |
| 0.556 A NADH 20% 3dan.dsp    | 0.226 A NADH 20% 3dan.dsp    |
| 0.551 A NADH 20% 7dan.dsp    | 0.218 A NADH 20% 7dan.dsp    |
| 0.551 A NADH 20% 14dan.dsp   | 0.214 A NADH 20% 14dan.dsp   |
| 0.549 A NADH 20% 21dan.dsp   | 0.209 A NADH 20% 21dan.dsp   |
| 0.564 A NADH 20% 28dan.dsp   | 0.213 A NADH 20% 28dan.dsp   |
| 0.565 A NADH 20% 35dan.dsp   | 0.209 A NADH 20% 35dan.dsp   |
| 0.568 A NADH 20% 42dan.dsp   | 0.205 A NADH 20% 42dan.dsp   |
| 0.554 A NADH 20% 50dan.dsp   | 0.193 A NADH 20% 50dan.dsp   |

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| NADH 20% 0dan 12.dsp |
| NADH 20% 21dan.dsp   |
| NADH 20% 50dan.dsp   |



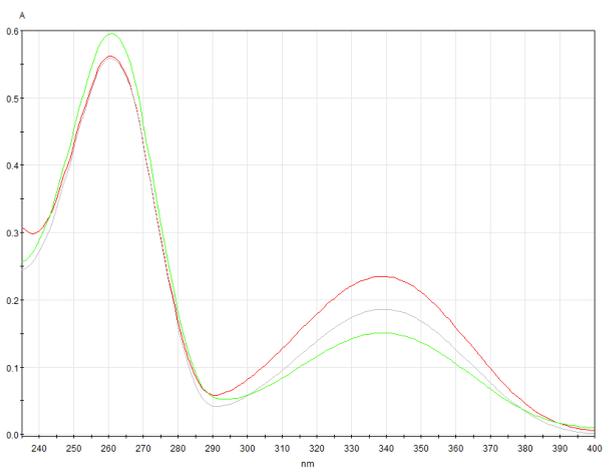
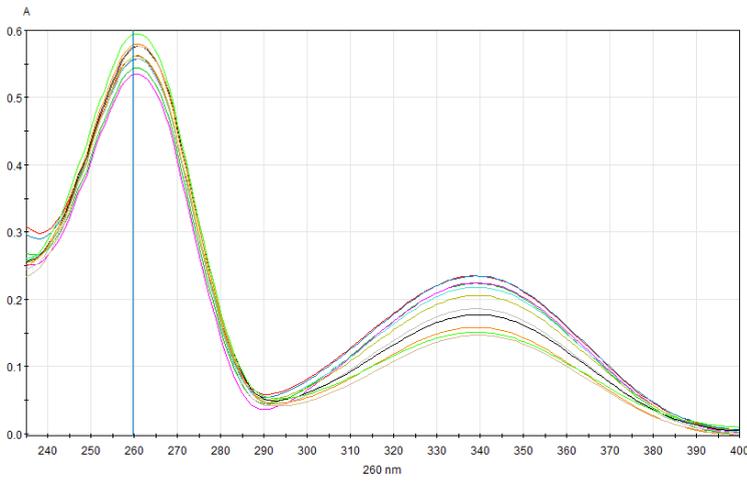
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|------------------------------|------------------------------|
| 0.549 A NADH 30% 0dan 12.dsp | 0.218 A NADH 30% 0dan 12.dsp |
| 0.571 A NADH 30% 1dan.dsp    | 0.237 A NADH 30% 1dan.dsp    |
| 0.560 A NADH 30% 2dan.dsp    | 0.231 A NADH 30% 2dan.dsp    |
| 0.542 A NADH 30% 3dan.dsp    | 0.221 A NADH 30% 3dan.dsp    |
| 0.549 A NADH 30% 7dan.dsp    | 0.220 A NADH 30% 7dan.dsp    |
| 0.554 A NADH 30% 14dan.dsp   | 0.215 A NADH 30% 14dan.dsp   |
| 0.561 A NADH 30% 21dan.dsp   | 0.212 A NADH 30% 21dan.dsp   |
| 0.546 A NADH 30% 28dan.dsp   | 0.193 A NADH 30% 28dan.dsp   |
| 0.554 A NADH 30% 35dan.dsp   | 0.188 A NADH 30% 35dan.dsp   |
| 0.551 A NADH 30% 42dan.dsp   | 0.185 A NADH 30% 42dan.dsp   |
| 0.562 A NADH 30% 50dan.dsp   | 0.180 A NADH 30% 50dan.dsp   |

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| NADH 30% 0dan 12.dsp |
| NADH 30% 21dan.dsp   |
| NADH 30% 50dan.dsp   |



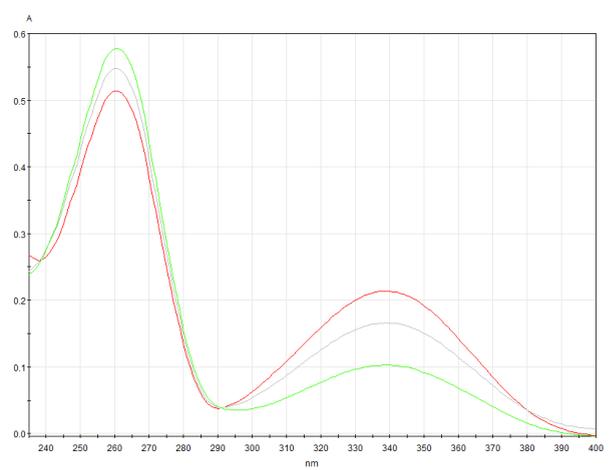
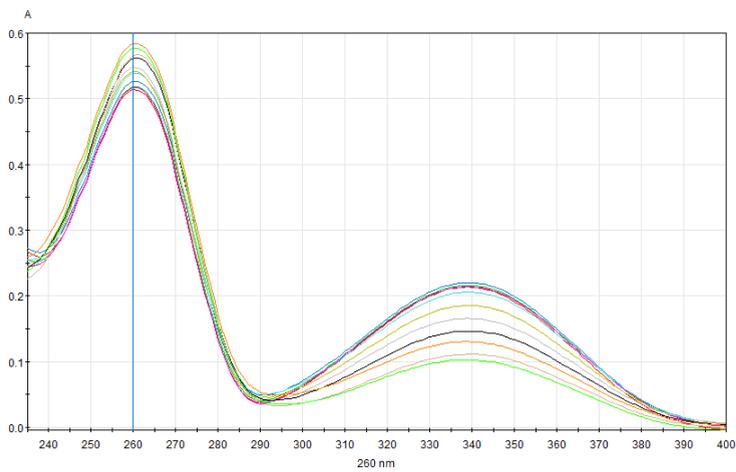
- |                              |                              |
|------------------------------|------------------------------|
| 0.571 A NADH 50% 0dan 12.dsp | 0.236 A NADH 50% 0dan 12.dsp |
| 0.561 A NADH 50% 1dan.dsp    | 0.233 A NADH 50% 1dan.dsp    |
| 0.564 A NADH 50% 2dan.dsp    | 0.236 A NADH 50% 2dan.dsp    |
| 0.573 A NADH 50% 3dan.dsp    | 0.241 A NADH 50% 3dan.dsp    |
| 0.568 A NADH 50% 7dan.dsp    | 0.225 A NADH 50% 7dan.dsp    |
| 0.569 A NADH 50% 14dan.dsp   | 0.210 A NADH 50% 14dan.dsp   |
| 0.573 A NADH 50% 21dan.dsp   | 0.194 A NADH 50% 21dan.dsp   |
| 0.564 A NADH 50% 28dan.dsp   | 0.169 A NADH 50% 28dan.dsp   |
| 0.590 A NADH 50% 35dan.dsp   | 0.165 A NADH 50% 35dan.dsp   |
| 0.578 A NADH 50% 42dan.dsp   | 0.144 A NADH 50% 42dan.dsp   |
| 0.587 A NADH 50% 50dan.dsp   | 0.136 A NADH 50% 50dan.dsp   |

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|----------------------|
| NADH 50% 0dan 12.dsp |
| NADH 50% 21dan.dsp   |
| NADH 50% 50dan.dsp   |



- |                            |                            |
|----------------------------|----------------------------|
| 0.561 A NADH 60% 0dan dsp  | 0.235 A NADH 60% 0dan dsp  |
| 0.557 A NADH 60% 1dan dsp  | 0.234 A NADH 60% 1dan dsp  |
| 0.544 A NADH 60% 2dan dsp  | 0.224 A NADH 60% 2dan dsp  |
| 0.535 A NADH 60% 3dan dsp  | 0.224 A NADH 60% 3dan dsp  |
| 0.558 A NADH 60% 7dan dsp  | 0.218 A NADH 60% 7dan dsp  |
| 0.562 A NADH 60% 14dan dsp | 0.205 A NADH 60% 14dan dsp |
| 0.558 A NADH 60% 21dan dsp | 0.186 A NADH 60% 21dan dsp |
| 0.575 A NADH 60% 28dan dsp | 0.176 A NADH 60% 28dan dsp |
| 0.579 A NADH 60% 35dan dsp | 0.158 A NADH 60% 35dan dsp |
| 0.575 A NADH 60% 42dan dsp | 0.146 A NADH 60% 42dan dsp |
| 0.595 A NADH 60% 50dan dsp | 0.151 A NADH 60% 50dan dsp |

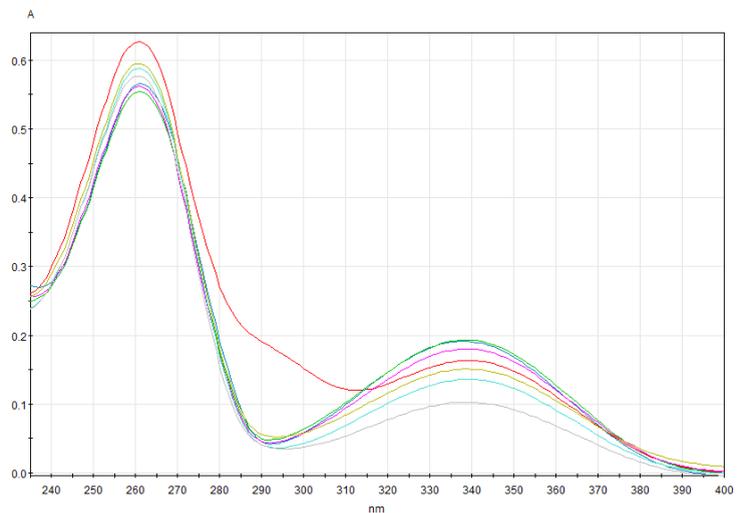
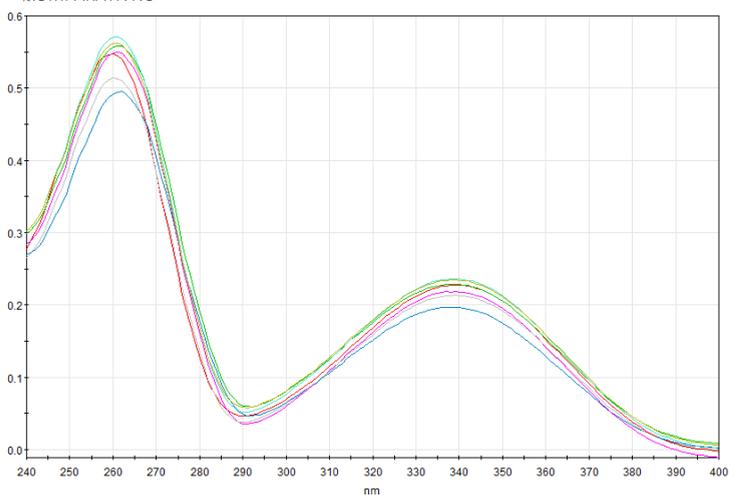
- |                      |
|----------------------|
| NADH 60% 0dan 12 dsp |
| NADH 60% 21dan dsp   |
| NADH 60% 50dan dsp   |



- |                              |                              |
|------------------------------|------------------------------|
| 0.514 A NADH 80% 0dan 12 dsp | 0.213 A NADH 80% 0dan 12 dsp |
| 0.528 A NADH 80% 1dan dsp    | 0.220 A NADH 80% 1dan dsp    |
| 0.519 A NADH 80% 2dan dsp    | 0.216 A NADH 80% 2dan dsp    |
| 0.517 A NADH 80% 3dan dsp    | 0.214 A NADH 80% 3dan dsp    |
| 0.539 A NADH 80% 7dan dsp    | 0.205 A NADH 80% 7dan dsp    |
| 0.541 A NADH 80% 14dan dsp   | 0.185 A NADH 80% 14dan dsp   |
| 0.548 A NADH 80% 21dan dsp   | 0.166 A NADH 80% 21dan dsp   |
| 0.562 A NADH 80% 28dan dsp   | 0.147 A NADH 80% 28dan dsp   |
| 0.583 A NADH 80% 35dan dsp   | 0.131 A NADH 80% 35dan dsp   |
| 0.566 A NADH 80% 42dan dsp   | 0.111 A NADH 80% 42dan dsp   |
| 0.577 A NADH 80% 50dan dsp   | 0.103 A NADH 80% 50dan dsp   |

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|----------------------|
| NADH 80% 0dan 12 dsp |
| NADH 80% 21dan dsp   |
| NADH 80% 50dan dsp   |

### KOMPARATIVNO



- |                      |
|----------------------|
| GlyPP 0dana dsp      |
| NADH 10% 0dan 12 dsp |
| NADH 20% 0dan 12 dsp |
| NADH 30% 0dan 12 dsp |
| NADH 50% 0dan 12 dsp |

- |                    |
|--------------------|
| GlyPP 50dana dsp   |
| NADH 10% 50dan dsp |
| NADH 20% 50dan dsp |
| NADH 30% 50dan dsp |
| NADH 50% 50dan dsp |

GlyPP 0dan.dsp  
NADH 10% 0dan 12.dsp  
NADH 20% 0dan 12.dsp  
NADH 30% 0dan 12.dsp  
NADH 50% 0dan 12.dsp  
NADH 60% 0dan 12.dsp  
NADH 80% 0dan 12.dsp

GlyPP 50dana.dsp  
NADH 10% 50dan.dsp  
NADH 20% 50dan.dsp  
NADH 30% 50dan.dsp  
NADH 50% 50dan.dsp  
NADH 60% 50dan.dsp  
NADH 80% 50dan.dsp